**SAMSUNG TECHWIN**

# NET-i ware V1.38

User Manual

SNS-SF064/SNS-SF032/SNS-SF016

SAMSUNG NETWORK RECORDING
SERVER SOFTWARE

Before installing or while using this program, visit the Samsung website www.samsungsecurity.com and download and upgrade with the latest S/W version available.

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# Before you start

## PURPOSE

Provides instructions for using NET-i ware.
Provides a description of work for configuring the NET-i ware settings and for using the NET-i ware Tool.

## AUDIENCE

This user guide is designed for engineers who install, configure the settings of and maintain the NET-i ware system.

- The users who install NET-i ware are required to have good knowledge and experience of Windows applications and services.

## ORGANIZATION

**Installation**
Guides you through the steps to install the NET-i ware component programs.

**Setting**
Provides a description of configuring the NET-i ware service and related settings.

**Backup**
Provides a description of manual backup.

**Service Manager**
Provides a description of controlling the NET-i ware service.

**NET-i ware Update**
Guides you through the steps to update NET-i ware with the latest version.

## TERMINOLOGY

- Tree : Area where you can see information on and correlation between device, camera, alarm and user (group).
- Device : This is a generic term for network cameras and encoders.
- fps (frames per second) : Number of frames per second.
- 4CIF : Resolution [704x480(NTSC), 704x576(PAL)]
- VGA : Resolution [640x480]
- CIF : Resolution [320x240(NTSC), 352x288(PAL)]
- QXGA : Resolution [2048x1536]
- UXGA : Resolution [1600x1200]
- 1080P(Full HD) : Resolution [1920x1080]
- 720P (HD) : Resolution [1280x720]
- SXGA : Resolution [1280x1024]
- XGA(XVGA) : Resolution [1024x768]
- SVGA : Resolution [800x600]
- QVGA : Resolution [320x180]

# Before you start

## WHAT IS NET-i ware?

NET-i ware is an open storage solution for security and automatic monitoring environment.
This program includes general functions for monitoring sites and storing device images.
This program is integrated with network cameras via the network environment.
You can set to record video at the set time.

■ You can search for and play recording data remotely using NET-i web viewer and NET-i viewer.

### Key Features of NET-i ware

With NET-i ware, you can:

- Record up to 64 channels simultaneously
  Record up to 64 channels manually or on schedule
  - SNS-SF064 : Max. 64 Channels / SNS-SF032 : Max. 32 Channels / SNS-SF016 : Max. 16 Channels
- Save and search for system and event logs
- Play various formats of video source
  H.264 / MPEG4 / MJPEG
- Play various formats of audio source
  G.726, G.711, G.723
- Backup
  REC1/SEC format supported
- Update automatically
- Advanced search (using NET-i viewer & Web Viewer)
  Date/Time & Event Search
- Provides multiple playback control options (using NET-i viewer & Web Viewer)
  Play up to 64x forward / backward

### NET-i ware Program

Check if all applications of the NET-i ware system are included in the product package and check the system requirements.

### NET-i ware Tool

You can configure the settings of NET-i ware and the remote device.

Language Settings

Register/Change/Delete Device

Create/Edit/Delete Recording Schedule

Event Setting

Create/Edit/Delete Backup Schedule

Manual Backup

Network Setting

Create/Edit/Delete User

Log Setting & Search

Update Device Firmware

Reset NET-i ware and Import/Export

Others

## Service Manager

Start/Stop NET-i ware service
Add/Delete Product Key

## Updater

Update automatically

Update manually

## System Requirement

The below specification is for the minimum hardware and OS requirements to install and run the NET-i ware system alone.

| | |
|---|---|
| **CPU** | Intel Core i3 (Recommended : Intel Core i7) |
| **OS** | Windows XP Professional SP2, Windows Server 2003 SP2,<br>Windows Vista Business / Ultimate, Windows Server 2008, Windows 7 |
| **DRAM** | 4 GB or more |
| **HDD SATA2** | 2 or more (one for the OS and one for the data storage HDD)<br>- at least 1 GB of free disk space is required to install NET-i ware. |
| **VGA** | 32MB, Direct X 8.1, 32 bit color, 1024 x 768 or higher resolution<br>(Recommended: 64MB or more, DirectX 8.1 or later, 32 bit color, 1280 x 1024 or higher resolution) |
| **Network** | Gigabit Ethernet NIC |
| **DVD Reader/ Writer** | For installing NET-i ware and backing up data |

- In case of a power failure or a problem with the power supply, NET-i ware may not work properly.
  To cope with this, it is recommended to use the uninterruptible power supply (UPS).
  - If you set the Restore on AC/Power Loss item in the CMOS settings of your PC, the system will reboot automatically after the power failure. Check if your PC supports this function.

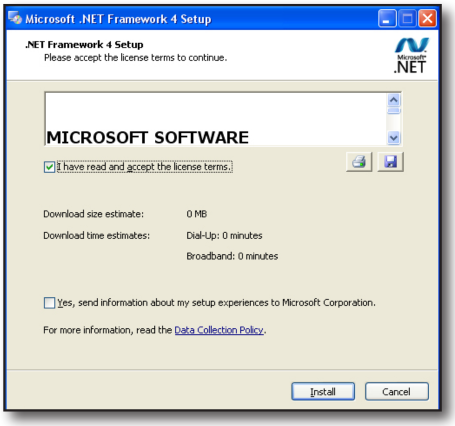
# Before you start

## INSTALLING NET-i ware

### Installing the NET-i ware Program

1. Insert the provided dongle key into a corresponding port of your computer.
   - Do not remove the dongle key while installing the program. If it's removed, the installation program may not proceed.
2. Run the SETUP.EXE file in the NET-i ware installation DVD or in the installation folder of your PC.
3. If .NET Framework 4.0 is not installed on your PC, .NET Framework 4.0 will be installed first.
   - If .NET Framework 4.0 is not installed on your PC, NET-i ware will not work properly.
   - You can download and install .NET Framework from the MS download center.

① Click [**I have read and accept the license terms.**] in the .NET Framework Client Profile window.



**.NET Framework 4 Setup**

Please accept the license terms to continue.

MICROSOFT SOFTWARE

☑ I have read and accept the license terms.

Download size estimate: 0 MB

Download time estimates: Dial-Up: 0 minutes

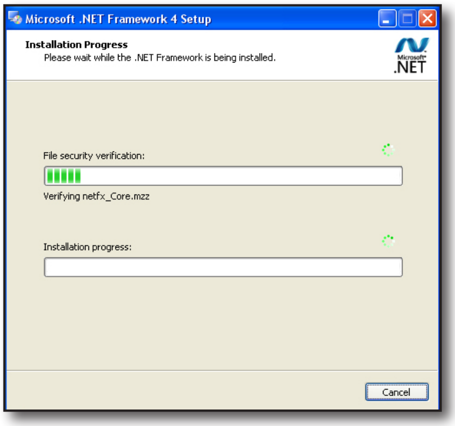
Broadband: 0 minutes

☐ Yes, send information about my setup experiences to Microsoft Corporation.

For more information, read the Data Collection Policy.

② The status bar will display the installation progress.

- When installation of .NET Framework 4.0 is done, you may need to restart your system depending on the PC environment.



**Installation Progress**

Please wait while the .NET Framework is being installed.

File security verification:

Verifying netfx_Core.mzz

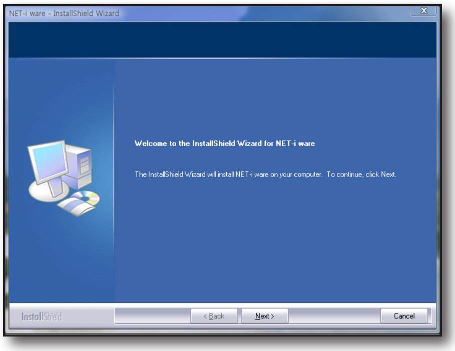
Installation progress:

4. If your PC has not installed a driver for the dongle key, HASP SRM run-time will be installed first.
   - If HASP SRM run-time is yet to install, NET-i ware will not work normally.
   - You can download and install HASP SRM run-time from Aladdin.com.

   ① Click [**Next >**] in the HASP SRM run-time setup window.

   ② The installation status will be shown in the status bar during the installation.

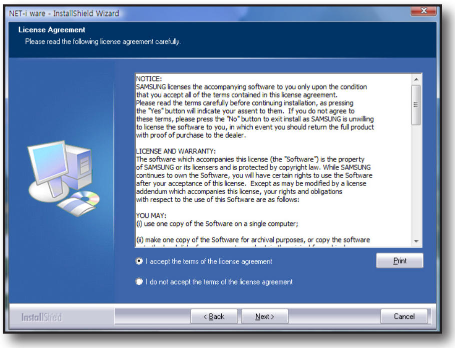
5. Click [**N**ext >] to move to the license agreement step.


NET-i ware - InstallShield Wizard
InstallShield
< Back
Next >
Cancel

Welcome to the InstallShield Wizard for NET-i ware

The InstallShield Wizard will install NET-i ware on your computer. To continue, click Next.

6. Read the license agreement carefully and select "**I accept the terms of the license agreement.**" And click [**N**ext >] to proceed with the next step.


NET-i ware - InstallShield Wizard
License Agreement
InstallShield
Print
< Back
Next >
Cancel

Please read the following license agreement carefully.

NOTICE:
SAMSUNG licenses the accompanying software to you only upon the condition that you accept all of the terms contained in this license agreement.
Please read the terms carefully before continuing installation, as pressing the "Yes" button will indicate your assent to them. If you do not agree to these terms, please press the "No" button to exit install as SAMSUNG is unwilling to license the software to you, in which event you should return the full product with proof of purchase to the dealer.

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YOU MAY:
(i) use one copy of the Software on a single computer;

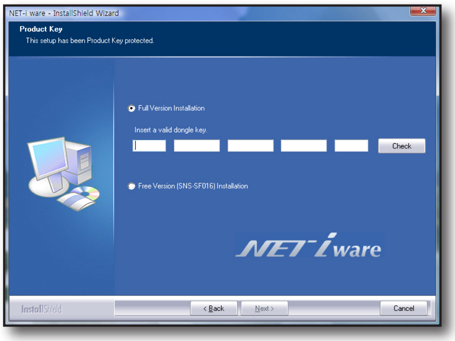
(ii) make one copy of the Software for archival purposes, or copy the software

● I accept the terms of the license agreement

○ I do not accept the terms of the license agreement

7. To activate NET-i ware, enter the product key (26 characters) and click [**Check**].
   - You can find the product key on the surface of the DVD case.

- If you replace a model featuring lots of available channels with a different model that has less channels available, some of the configuration and recording data can be lost.
- If you want to connect to NET- i ware 16CH model without a dongle key, select to install “Free Version (SNS-SF016) Installation”


NET-i ware - InstallShield Wizard
Product Key
Check
NET-i ware
InstallShield
< Back
Next >
Cancel

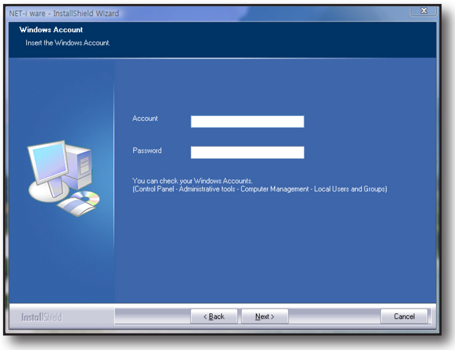
This setup has been Product Key protected.

● Full Version Installation

Insert a valid dongle key.

○ Free Version (SNS-SF016) Installation

8. Provide the Windows logon account information, and click [**N**ext >].
   - The Windows logon account is information required to log onto the Windows OS of your PC.
     You can check your Windows logon account in Control Panel – Administrative Tools – Computer Management – Local Users and Groups.
   - The Windows logon account information can be also edited in NET-i ware tool after its installation. (Page 35)


NET-i ware - InstallShield Wizard
Windows Account
InstallShield
< Back
Next >
Cancel

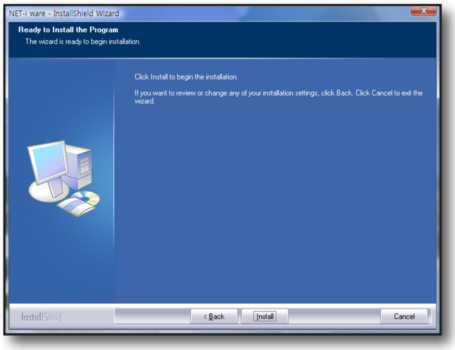
Insert the Windows Account.

Account

Password

You can check your Windows Accounts.
(Control Panel - Administrative tools - Computer Management - Local Users and Groups)

**9.** Click [**Install**] to install the program.


NET-i ware - InstallShield Wizard
InstallShield
< Back
Install
Cancel

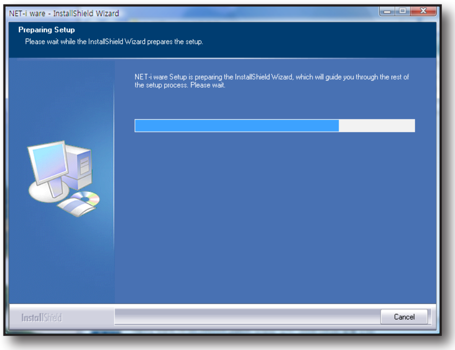
**Ready to Install the Program**

The wizard is ready to begin installation.

Click Install to begin the installation.

If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.

**10.** The Wizard is ready to install the NET-i ware program.

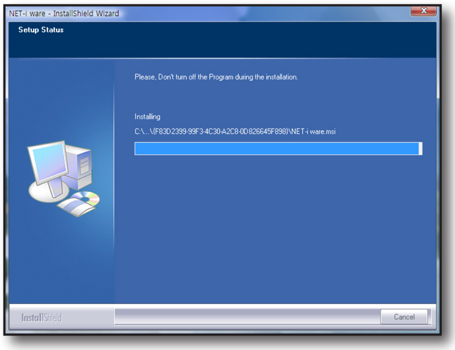

NET-i ware - InstallShield Wizard
InstallShield
Cancel

**Preparing Setup**

Please wait while the InstallShield Wizard prepares the setup.

NET-i ware Setup is preparing the InstallShield Wizard, which will guide you through the rest of the setup process. Please wait.

**11.** The Wizard starts installing the NET-i ware program.


NET-i ware - InstallShield Wizard
InstallShield
Cancel

**Setup Status**

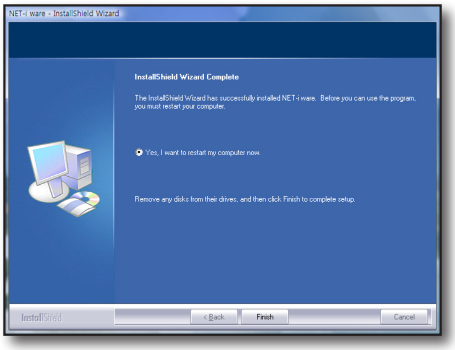
Please, Don't turn off the Program during the installation.

Installing

C:\...\{F83D2399-99F3-4C30-A2C8-0D826645F898}\NET-i ware.msi

**12.** When the installation is completed, click [**Finish**] to complete the installation.

- When done, your PC will reboot.


NET-i ware - InstallShield Wizard
InstallShield
< Back
Finish
Cancel

**InstallShield Wizard Complete**

The InstallShield Wizard has successfully installed NET-i ware. Before you can use the program, you must restart your computer.

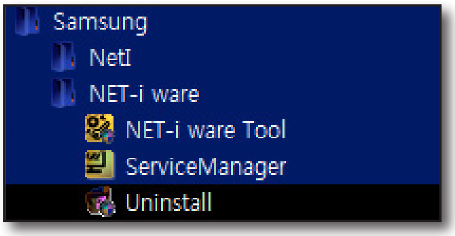
● Yes, I want to restart my computer now.

Remove any disks from their drives, and then click Finish to complete setup.

## Checking Installation

Check if NET-i ware is installed successfully on your system.

1. Move to the Start menu.
2. If NET-i ware is properly installed, you will see 3 sub components in the NET-i ware program menu: NET-i ware Tool, ServiceManager and Uninstall.


Samsung
NetI
NET-i ware
NET-i ware Tool
ServiceManager
Uninstall

- When you first run NET-i ware, the language of NET-i ware is defaulted to that of the operating system.

# Setup

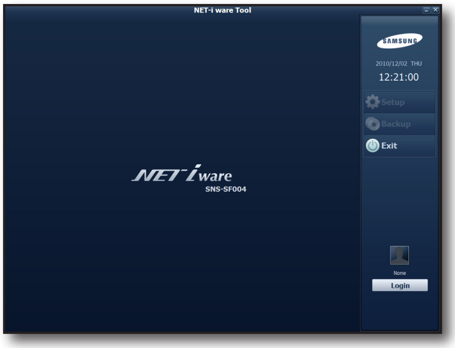
Check the use instructions of the NET-i ware Tool that enables you to configure the tree and system related options.
You can configure the NET-i ware settings with the NET-i ware Tool.
You can configure the device settings in the Device Setting page.

## NAME AND FUNCTION OF EACH CONTROL

| Category | Item | | Description |
|---|---|---|---|
| Main Menu | Setup | | Displays the Setting page. |
| | Backup | | Displays the Manual Backup page. |
| | Exit | | Exits the NET-i ware Tool. |
| | Login | | Displays the Login dialog. |
| | Logout | | Displays the Logout dialog. |
| Setup Menu | Hardware | Register | Displays the Register Device and Change Information of Server, Device or Camera pages. |
| | | Activation | Displays a page where you can activate a camera to use. |
| | | Camera | Displays a page where you can configure video and audio settings and set Covert to On/Off. |
| | | Video | Opens the video properties page for the live and recording source. |
| | Record | NET-i ware | You can check the HDD information, disk quota for each camera and basic record settings. |
| | | Schedule | You can create / edit / delete a schedule with holidays and assign a camera to the schedule. |
| | | Event | You can set the pre / post recording time for the camera and event. |
| | | Camera | Display the recording FPS for each camera as well as the storage period of the recording file. |
| | Event | Camera | You can set the event discard time and alarm in link for each camera. |
| | | E-mail | You can create / edit / delete an e-mail and set the e-mail notice interval. |
| | | Alert Sound | You can set the alert sound for each event. |
| | | Preset | Displays the preset setup page for the applicable Alarm In. |
| | Backup | Schedule | You can create / edit / delete a schedule backup instance. |
| | | Network Drive | Displays a page where you can specify the network connection retry count and configure to delete the backup file automatically. |
| | Network | Interface | Display the network settings and transfer settings pages. |
| | | DDNS | Displays the DDNS Setting page. |
| | System | User | You can create / edit / delete a user account. |
| | | Setting | You can set the language, date/time format, windows logon account, overwrite options and IP filtering and restore the settings to the default, sync with the updater and import/export settings. |
| | | Log | You can set the log storage options and view the search result. |

# GETTING STARTED

Double-click the < > icon on your desktop.
The main page of the NET-i ware Tool will appear.

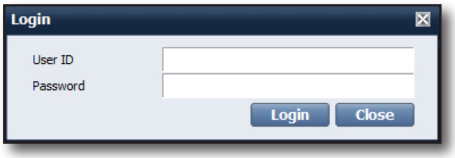

NET-i ware Tool
SAMSUNG
2010/12/02 THU
12:21:00
Setup
Backup
Exit
NET-i ware
SNS-SF004
None
Login

## Login/Logout

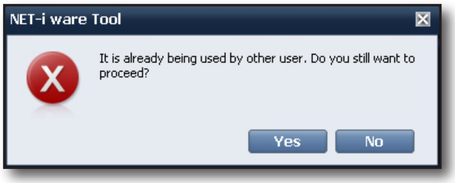
### ❖ Login

You must have logged in before using the Setup page.

1. Click [**Login**] in the Setup main page.
   You will see the Login dialog.
2. Enter your ID and password.
   - Default ID: admin
   - Password: 4321


Login
User ID
Password
Login
Close

- Login will fail in the following cases:
  - If you enter an unregistered user ID
  - If you enter a wrong password
  - You can make settings for only one user at a time. If a different user has already accessed the web viewer, you can disconnect the current connection and make yourself access the web viewer by force.
  - If you are forced to log in to the web viewer, the user logged in to NET-i ware tool will be logged out automatically.


NET-i ware Tool

It is already being used by other user. Do you still want to proceed?

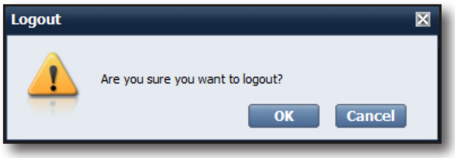
Yes
No

- The default password can be exposed to a hacking thread so it is recommended to change the password after installing the product.
  Note that the security and other related issues caused by the unchanged password shall be responsible for the user.

### ❖ Logout

You must log out when you have completed your settings.

1. Click [**Logout**] in the Setup main page.
   You will see the Logout dialog.
2. Click [**OK**] in the dialog.
   You will be logged out.
   - You will be automatically logged out if you exit the Setup program.


Logout

Are you sure you want to logout?

OK
Cancel

# HARDWARE

## Registering Hardware

### ❖ Registering Device

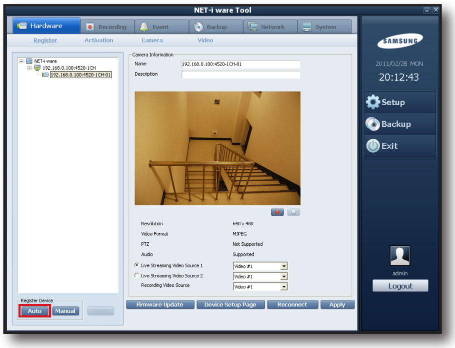
You can add / change / delete a desired device to and from NET-i ware.

Register a desired device in two ways:

① You can register up to 64 devices.

- SNS-SF064 : Max. 64 Devices / SNS-SF032 : Max. 32 Devices / SNS-SF016 : Max. 16 Devices

② Only devices connected in the network can be registered.


NET-i ware Tool
Hardware
Recording
Event
Backup
Network
System
Register
Activation
Camera
Video
NET-i ware
192.168.0.100:4520-1CH
192.168.0.100:4520-1CH-01
SAMSUNG
2011/02/28 MON
20:12:43
Setup
Backup
Exit
admin
Logout
Register Device
Auto
Manual
Delete
Firmware Update
Device Setup Page
Reconnect
Apply

Camera Information

Name 192.168.0.100:4520-1CH-01

Description

Resolution 640 x 480

Video Format MJPEG

PTZ Not Supported

Audio Supported

● Live Streaming Video Source 1 Video #1

○ Live Streaming Video Source 2 Video #1

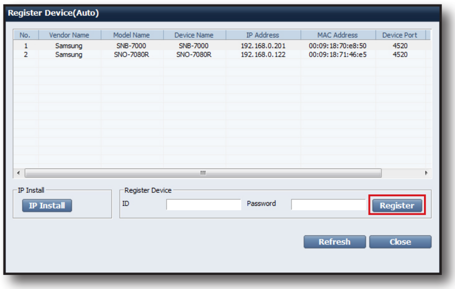
Recording Video Source Video #1

#### Automatic Registration of Devices

Press the [**Auto**] button in the bottom left corner of the main window to register a device automatically.

1. Click [**Auto**] to register a device automatically.
   All devices connected in the local network will be listed in "**Register Device(Auto)**" window.
   Registered devices will be marked grey.

   - The Auto Device Scan function may not work due to firewall of the vaccine program. To use Auto Device Scan, you must turn off the firewall first.


Register Device(Auto)
IP Install
IP Install
Register Device
Register
Refresh
Close

| No. | Vendor Name | Model Name | Device Name | IP Address | MAC Address | Device Port |
|---|---|---|---|---|---|---|
| 1 | Samsung | SNB-7000 | SNB-7000 | 192.168.0.201 | 00:09:18:70:e8:50 | 4520 |
| 2 | Samsung | SNO-7080R | SNO-7080R | 192.168.0.122 | 00:09:18:71:46:e5 | 4520 |

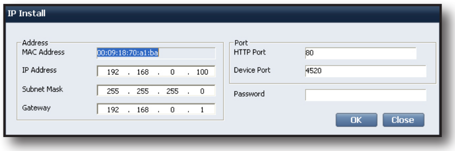
ID

Password

2. To register a specific device in the list, simply click the device in the list.
3. Provide the device ID and password, and click [**Register**].
   The device information includes the ID and password that are specified for the device.

- IP Install: You can change the network address of the device.
  Enter an IP address, subnet mask, gateway, HTTP port, device port and password, and click [**OK**].

  - You may not be enabled to configure IP settings of the device, depending on the device model.


IP Install
Address
Port
OK
Close

MAC Address 00:09:18:70:a1:ba

IP Address 192 . 168 . 0 . 100

Subnet Mask 255 . 255 . 255 . 0

Gateway 192 . 168 . 0 . 1

HTTP Port 80

Device Port 4520

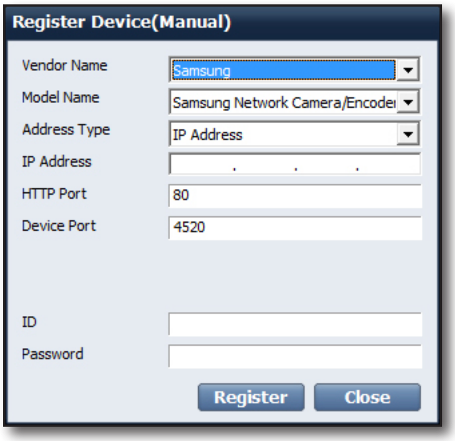
Password

- Refresh: Reloads to list devices that are connected to the local network.
- Close: Closes the Register Device window.

4. If you experience a problem, you will see the appropriate error message.
   Registered devices will be listed in the tree.
   - For more information about errors, refer to "**Error Type**". (Page 13)

### Manual Registration of Devices

Press the [**Manual**] button in the bottom left corner of the main window to register a device manually.



Register Device(Manual)

Vendor Name: Samsung

Model Name: Samsung Network Camera/Encode

Address Type: IP Address

IP Address: . . .

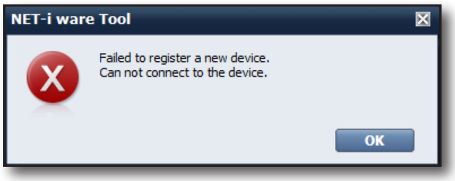
HTTP Port: 80

Device Port: 4520

ID:

Password:

1. Click [**Manual**] to open the "**Register Device(Manual)**" window.
2. Select a vendor name and model name.
3. Select an address type.
   - Available address types include: IP Address, URL, websamsung.net, samsungipolis.com
4. Provide necessary information to connect to the device.
   - You should provide different information, according to the vendor name, model name and address type.
5. Provide the ID and password.
   The device information includes the ID and password that are specified for the device.
6. Click [**Register**].
   When registration is completed, the device will be added to the tree.
   If it fails, you will see an error message with the cause (see registration error messages).
   - Ex) If connection to the device fails, you will see the error message shown.



NET-i ware Tool

Failed to register a new device.
Can not connect to the device.

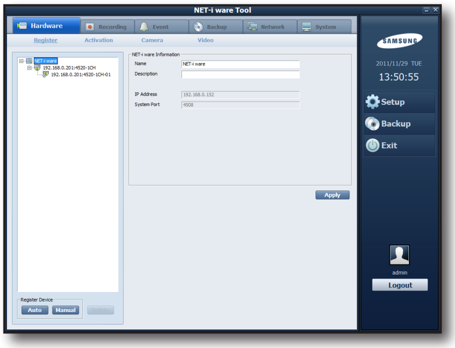
### Error Type

If you experience a registration problem, you will see one of the following error messages:

| Error Message | Description | Action |
|---|---|---|
| Parameter Error | Invalid registration parameter. | Verify the information that you provided. |
| Device Connection Error | Device is not connected. | Check if the device is connected to the network properly. |
| Network Error | Network connection failed. | Check if the device is connected to the network properly. |
| Duplicate Address Error | The address already exists. | Please check the MAC address of the device again. |
| Login ID Error | The login ID is not valid. | Verify the login ID that you provided. |
| Login Password Error | The login password is not valid. | Verify the login password that you provided. |
| Login Conflict Error | The login ID is out of range.<br>Ex) If you try to log in as an ID that can not be connected concurrently | Please check the allowable number of simultaneously logged-in devices. |
| Exceed the maximum number | Exceeded the maximum number of devices to register. | Please check the number of devices that you have registered. |
| Unknown Error | Unknown error occurred. | Please restart the NET-i ware service. |

# Setup

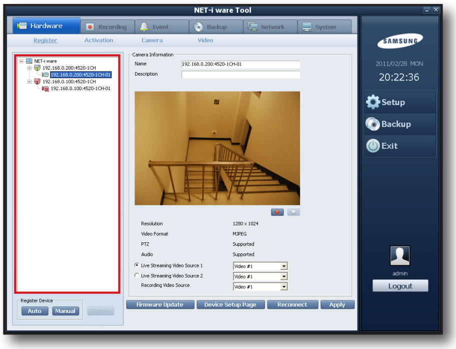
## ❖ Tree View


NET-i ware Tool
Hardware
Recording
Event
Backup
Network
System
Register
Activation
Camera
Video
SAMSUNG
Setup
Backup
Exit
Logout
Apply
Auto
Manual

The tree will cascade a list of servers, registered devices and cameras.
The connection status of the server, device and camera will be displayed in the form of an icon.
You can check the status of the server and device by the color of the icon.

- : Connected
- : Not connected

## ❖ Checking the camera status


NET-i ware Tool
Hardware
Recording
Event
Backup
Network
System
Register
Activation
Camera
Video
SAMSUNG
Setup
Backup
Exit
Logout
Firmware Update
Device Setup Page
Reconnect
Apply
Auto
Manual

There are 6 states for the camera connection:

- : Connected + Activated + Schedule Recording
- : Connected + Activated + Manual Recording
- : Connected + Activated + Schedule & Manual Recording
- : Connected + Activated
- : Not Connected + Activated
- : Not Connected + Not Activated

  ■ You can use the +/– buttons to show or hide the sub menus.

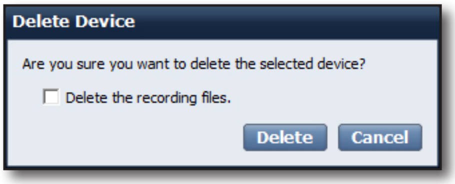
## ❖ To delete a device

You can select a device to delete.

1) **To delete a device**

① Select a device in the tree and click [**Delete**].

② In the Delete Device dialog, decide to delete recording files and click [**Delete**].



**Delete Device**

Are you sure you want to delete the selected device?

☐ Delete the recording files.

Delete Cancel

■ If you check the Delete Recording Data option, the recording data of the device will be deleted accordingly.

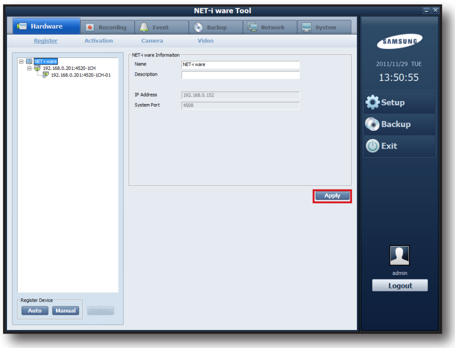
2) **Result of deletion**

- The device or camera will be deleted in the tree.
- If the appropriate camera is in process of recording or playback, it will be stopped.

## ❖ To view the server information

You can change the server name or description and check the address and port number.

1. In the tree, click the server icon <>.
   You can change the server name and description.
2. To save your work, click [**Apply**].


NET-i ware Tool
Hardware
Recording
Event
Backup
Network
System
Register
Activation
Camera
Video
NET-i ware
192.168.0.201:4520-1CH
192.168.0.201:4520-1CH-01
Register Device
Auto
Manual
Delete
Apply
SAMSUNG
2011/11/29 TUE
13:50:55
Setup
Backup
Exit
admin
Logout

NET-i ware Information

Name: NET-i ware

Description:

IP Address: 192.168.0.152

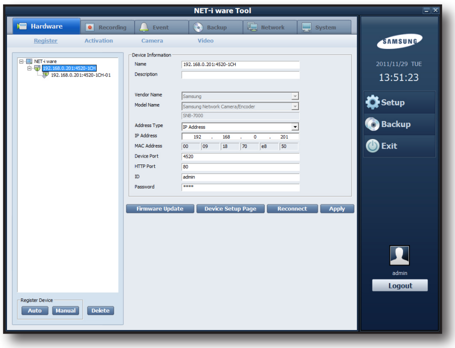
System Port: 4508

## ❖ To view the device information

You can change the device information or request to connect.

- For camera activation, refer to page 18.

1. In the tree, click the device icon <>.
2. Change the information or request to connect.


NET-i ware Tool
Hardware
Recording
Event
Backup
Network
System
Register
Activation
Camera
Video
NET-i ware
192.168.0.201:4520-1CH
192.168.0.201:4520-1CH-01
Firmware Update
Device Setup Page
Reconnect
Apply
Register Device
Auto
Manual
Delete
SAMSUNG
2011/11/29 TUE
13:51:23
Setup
Backup
Exit
admin
Logout

Device Information

Name: 192.168.0.201:4520-1CH

Description:

Vendor Name: Samsung

Model Name: Samsung Network Camera/Encoder

SNB-7000

Address Type: IP Address

IP Address: 192 . 168 . 0 . 201

MAC Address: 00 09 18 70 e8 50

Device Port: 4520

HTTP Port: 80

ID: admin

Password: ****

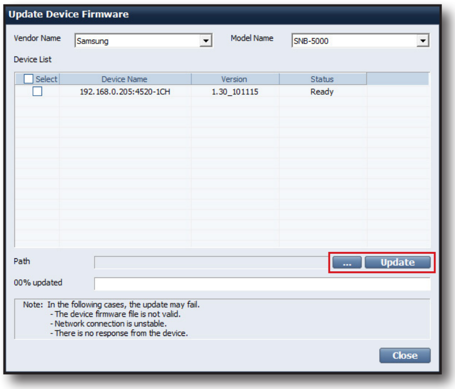
### To change the device information

1. Change the name, description or properties.
   - The device information includes the ID and password that are specified for the device.
   - Out-of-order devices can be replaced with.
   - Connect the replacing device to the network, and edit its properties(address type and IP, etc.) with those of replaced device.
   - The model name and MAC address cannot be modified while the device is connected.
2. Click [**Apply**] to save the changes.
3. If connection to the device with the changed properties fails, you will see the Properties window where you can restore the previous settings.

## ❖ To update the firmware

You can update the device firmware remotely.

1. Click [**Firmware Update**].
2. Select a vendor name and model name to update.
   The selected devices will be listed.
3. Check to select for devices to update.
4. Click [**File Browser (** ... **)**] and select a firmware file.
5. Click [**Update**] to update the selected devices. If there is more than one device to update the firmware, the update will perform in the sequence from top.
6. When the update is done, the status bar will display a message of completed. During the update process, no other function will be enabled.
   - If the firmware update fails during the process, the system will just proceed with the next device.



**Update Device Firmware**

Vendor Name: Samsung
Model Name: SNB-5000

Device List

| ☐ Select | Device Name | Version | Status |
|---|---|---|---|
| ☐ | 192.168.0.205:4520-1CH | 1.30_101115 | Ready |

Path

00% updated

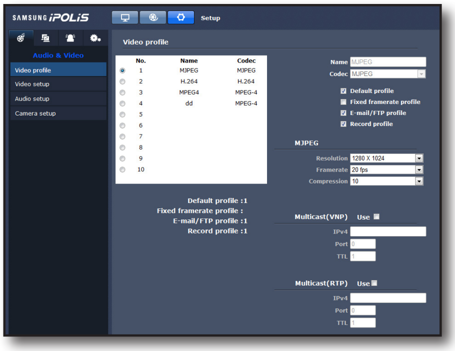
Note: In the following cases, the update may fail.
- The device firmware file is not valid.
- Network connection is unstable.
- There is no response from the device.

## ❖ To view the device settings

For device settings, you can move to the Setup page for each device.

- For more information, refer to the user guide of the appropriate device.

1. Click [**Device Setup Page**].
   You will see the Setup page of the selected device.



|  | No. | Name | Codec |
|---|---|---|---|
| ● | 1 | MJPEG | MJPEG |
| ○ | 2 | H.264 | H.264 |
| ○ | 3 | MPEG4 | MPEG-4 |
| ○ | 4 | dd | MPEG-4 |
| ○ | 5 |  |  |
| ○ | 6 |  |  |
| ○ | 7 |  |  |
| ○ | 8 |  |  |
| ○ | 9 |  |  |
| ○ | 10 |  |  |

Name: MJPEG
Codec: MJPEG
☑ Default profile
☐ Fixed framerate profile
☑ E-mail/FTP profile
☑ Record profile

MJPEG
Resolution: 1280 X 1024
Framerate: 20 fps
Compression: 10

Default profile :1
Fixed framerate profile :
E-mail/FTP profile :1
Record profile :1

Multicast(VNP) Use ☐
IPv4
Port: 0
TTL: 1

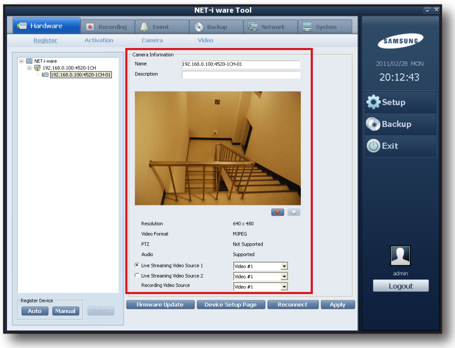
Multicast(RTP) Use ☐
IPv4
Port: 0
TTL: 1

## ❖ To view the camera information

You can change the camera information or view the live video.

- You can change the information or view the live video only if the camera is activated.
- You can check the resolution, video format, PTZ and audio permissions of the camera.

1. In the device list, click the camera icon < >.
2. Change the information of the connected camera or play the live video.


NET-i ware Tool
Hardware
Recording
Event
Backup
Network
System
Register
Activation
Camera
Video
NET-i ware
192.168.0.100:4520-1CH
192.168.0.100:4520-1CH-01
SAMSUNG
2011/02/28 MON
20:12:43
Setup
Backup
Exit
admin
Logout
Register Device
Auto
Manual
Delete
Firmware Update
Device Setup Page
Reconnect
Apply

Camera Information
Name: 192.168.0.100:4520-1CH-01
Description:
Resolution: 640 x 480
Video Format: MJPEG
PTZ: Not Supported
Audio: Supported
● Live Streaming Video Source 1: Video #1
○ Live Streaming Video Source 2: Video #1
Recording Video Source: Video #1

### To change the camera information

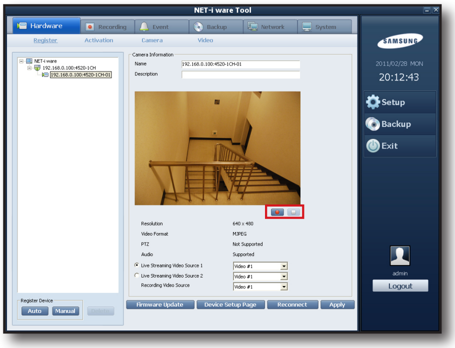
1. Change the name, description or video source.
   - If the camera supports more than one video source, you can select one for live playback 1, 2 and one for recording, respectively.
2. Click [**Apply**] to save the changes.

- It is recommended to set a different source (video profile) for each of live source 1 and 2.

### To play the live video

You can play the live video, and start/stop manual recording.

1. To start manual recording, click < ● > in the bottom of the screen.
   - The minimum recording time is 30 minutes and you can not stop recording within 30 minutes after the start of recording.
   - You must assign the camera to a disk before you can proceed with manual recording.
     For more information, refer to “**To assign a camera to each disk**” (Page 21)
2. To stop manual recording, click < ■ >.
   - Manual recording will be stopped if the connection terminates.


NET-i ware Tool
Hardware
Recording
Event
Backup
Network
System
Register
Activation
Camera
Video
NET-i ware
192.168.0.100:4520-1CH
192.168.0.100:4520-1CH-01
SAMSUNG
2011/02/28 MON
20:12:43
Setup
Backup
Exit
admin
Logout
Register Device
Auto
Manual
Delete
Firmware Update
Device Setup Page
Reconnect
Apply

Camera Information
Name: 192.168.0.100:4520-1CH-01
Description:
Resolution: 640 x 480
Video Format: MJPEG
PTZ: Not Supported
Audio: Supported
● Live Streaming Video Source 1: Video #1
○ Live Streaming Video Source 2: Video #1
Recording Video Source: Video #1

- If the camera has an incoming video loss event, recording will not start even if you press the Start Manual Recording button.

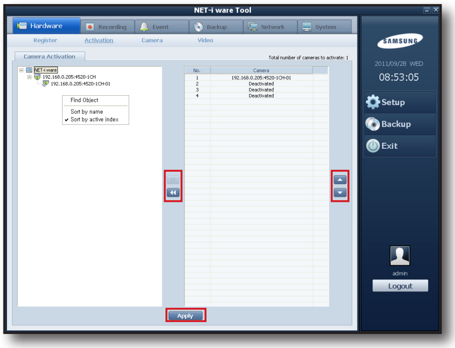
## Activation

### ❖ To activate a camera

To use a camera, you must activate the camera after you registered it.

- You can activate up to 64 cameras.
  - SNS-SF064 : Max. 64 Cameras / SNS-SF032 : Max. 32 Cameras / SNS-SF016 : Max. 16 Cameras

- If you want to register a multi-channel device for operational purposes, sometimes there happens where not all devices are available.
  Ex) If you register one 4-channel encoder and 31 network cameras with model SNS-SF032, a total of the channels to be registered will be 35. If this is the case, the maximum number of active channels available is 32 so the remaining 3 will be disabled.


NET-i ware Tool
Hardware
Recording
Event
Backup
Network
System
Register
Activation
Camera
Video
Camera Activation
NET-i ware
192.168.0.205:4520-1CH
192.168.0.205:4520-1CH-01
Find Object
Sort by name
✓ Sort by active index
Apply
SAMSUNG
2011/09/28 WED
08:53:05
Setup
Backup
Exit
admin
Logout

Total number of cameras to activate: 1

| No. | Camera |
|---|---|
| 1 | 192.168.0.205:4520-1CH-01 |
| 2 | Deactivated |
| 3 | Deactivated |
| 4 | Deactivated |

1. Select a camera in the camera list of the left pane and click <▶▶>.
   The selected camera will move to the right list.
2. To change the camera index, select a camera and use the <▲ , ▼> buttons to change the index.
   - The changed index will have the same list order of cameras as in NET-i viewer.
3. To deactivate an already activated camera, select a camera in the right list and click <◀◀>.
   The selected camera will move to the left list.
4. If you want to sort or find more about the camera list in the left pane, right-click an empty area to select one of the followings:
   - Find object
     Enter the name of a device or camera to search for a desired configuration file.
   - Sort by name / sort by active index
     You can sort the device or camera configuration files by name (ascending) or by index.
5. To save your work, click [**Apply**].
   - If you activate a camera, the camera will automatically connect to the network.
   - If you deactivate a camera, the camera will be automatically disconnected from the network.

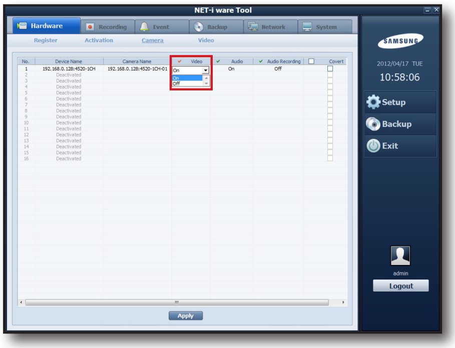
## Camera

You can turn on/off functions of Video, Audio and Covert.

### ❖ Video

1. Select the video item of a camera that you want to change the settings of.
2. Select either On or Off.

- If you set the Video function to Off, you can not play the live video, nor record.
  If the Video function is set to Off, the Audio function will be turned off accordingly.

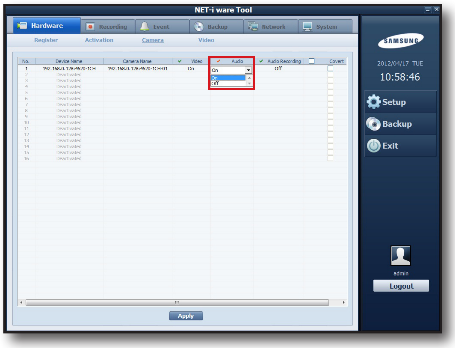

NET-i ware Tool
Hardware
Recording
Event
Backup
Network
System
Register
Activation
Camera
Video
SAMSUNG
2012/04/17 TUE
10:58:06
Setup
Backup
Exit
admin
Logout
Apply

| No. | Device Name | Camera Name | ✓ Video | ✓ Audio | ✓ Audio Recording | ☐ Covert |
|---|---|---|---|---|---|---|
| 1 | 192.168.0.128:4520-1CH | 192.168.0.128:4520-1CH-01 | On<br>On<br>Off | On | Off | ☐ |
| 2 | Deactivated | | | | | ☐ |
| 3 | Deactivated | | | | | ☐ |
| 4 | Deactivated | | | | | ☐ |
| 5 | Deactivated | | | | | ☐ |
| 6 | Deactivated | | | | | ☐ |
| 7 | Deactivated | | | | | ☐ |
| 8 | Deactivated | | | | | ☐ |
| 9 | Deactivated | | | | | ☐ |
| 10 | Deactivated | | | | | ☐ |
| 11 | Deactivated | | | | | ☐ |
| 12 | Deactivated | | | | | ☐ |
| 13 | Deactivated | | | | | ☐ |
| 14 | Deactivated | | | | | ☐ |
| 15 | Deactivated | | | | | ☐ |
| 16 | Deactivated | | | | | ☐ |

### ❖ Audio

1. Select the Audio item of a camera that you want to change the settings.
2. Select either On or Off.

- If you set the Audio function to Off, you can not play the live audio, nor voice record.

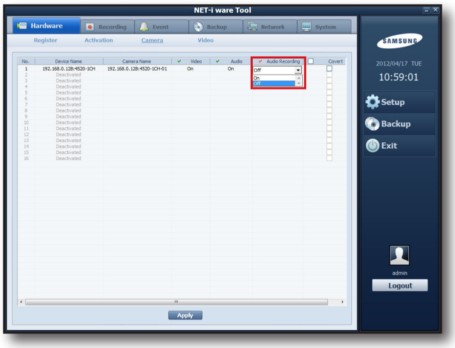

NET-i ware Tool
Hardware
Recording
Event
Backup
Network
System
Register
Activation
Camera
Video
SAMSUNG
2012/04/17 TUE
10:58:46
Setup
Backup
Exit
admin
Logout
Apply

| No. | Device Name | Camera Name | ✓ Video | ✓ Audio | ✓ Audio Recording | ☐ Covert |
|---|---|---|---|---|---|---|
| 1 | 192.168.0.128:4520-1CH | 192.168.0.128:4520-1CH-01 | On | On<br>On<br>Off | Off | ☐ |
| 2 | Deactivated | | | | | ☐ |
| 3 | Deactivated | | | | | ☐ |
| 4 | Deactivated | | | | | ☐ |
| 5 | Deactivated | | | | | ☐ |
| 6 | Deactivated | | | | | ☐ |
| 7 | Deactivated | | | | | ☐ |
| 8 | Deactivated | | | | | ☐ |
| 9 | Deactivated | | | | | ☐ |
| 10 | Deactivated | | | | | ☐ |
| 11 | Deactivated | | | | | ☐ |
| 12 | Deactivated | | | | | ☐ |
| 13 | Deactivated | | | | | ☐ |
| 14 | Deactivated | | | | | ☐ |
| 15 | Deactivated | | | | | ☐ |
| 16 | Deactivated | | | | | ☐ |

### ❖ Audio Recording

1. Click on the Audio Recording of the desired camera.
2. Select either one of On and Off.

- If you set the camera's Audio Recording to Off, no audio will be recorded.

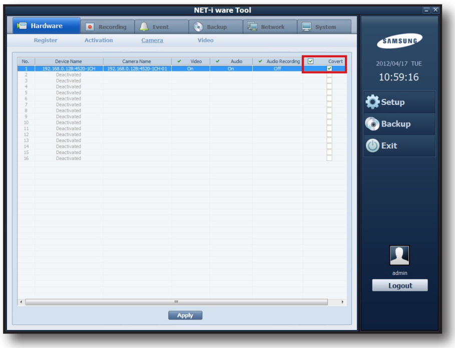

NET-i ware Tool
Hardware
Recording
Event
Backup
Network
System
Register
Activation
Camera
Video
SAMSUNG
2012/04/17 TUE
10:59:01
Setup
Backup
Exit
admin
Logout
Apply

| No. | Device Name | Camera Name | ✓ Video | ✓ Audio | ✓ Audio Recording | ☐ Covert |
|---|---|---|---|---|---|---|
| 1 | 192.168.0.128:4520-1CH | 192.168.0.128:4520-1CH-01 | On | On | Off<br>On<br>Off | ☐ |
| 2 | Deactivated | | | | | ☐ |
| 3 | Deactivated | | | | | ☐ |
| 4 | Deactivated | | | | | ☐ |
| 5 | Deactivated | | | | | ☐ |
| 6 | Deactivated | | | | | ☐ |
| 7 | Deactivated | | | | | ☐ |
| 8 | Deactivated | | | | | ☐ |
| 9 | Deactivated | | | | | ☐ |
| 10 | Deactivated | | | | | ☐ |
| 11 | Deactivated | | | | | ☐ |
| 12 | Deactivated | | | | | ☐ |
| 13 | Deactivated | | | | | ☐ |
| 14 | Deactivated | | | | | ☐ |
| 15 | Deactivated | | | | | ☐ |
| 16 | Deactivated | | | | | ☐ |

### ❖ Covert

1. Select the Covert item of a camera that you want to change the settings of.
2. Check the item.
   The Covert function will be set to On.

- If you check the Covert item, you can not play the live video or audio, but can make video or voice recording.


NET-i ware Tool
Hardware
Recording
Event
Backup
Network
System
Register
Activation
Camera
Video
SAMSUNG
2012/04/17 TUE
10:59:16
Setup
Backup
Exit
admin
Logout
Apply

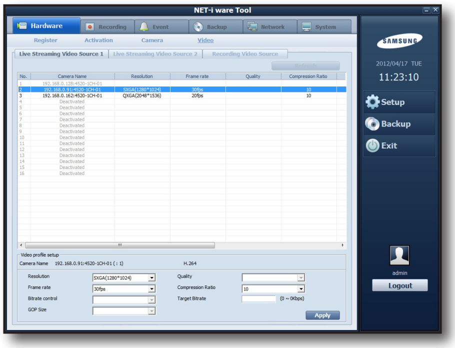
| No. | Device Name | Camera Name | ✓ Video | ✓ Audio | ✓ Audio Recording | ☑ Covert |
|---|---|---|---|---|---|---|
| 1 | 192.168.0.128:4520-1CH | 192.168.0.128:4520-1CH-01 | On | On | Off | ☑ |
| 2 | Deactivated | | | | | ☐ |
| 3 | Deactivated | | | | | ☐ |
| 4 | Deactivated | | | | | ☐ |
| 5 | Deactivated | | | | | ☐ |
| 6 | Deactivated | | | | | ☐ |
| 7 | Deactivated | | | | | ☐ |
| 8 | Deactivated | | | | | ☐ |
| 9 | Deactivated | | | | | ☐ |
| 10 | Deactivated | | | | | ☐ |
| 11 | Deactivated | | | | | ☐ |
| 12 | Deactivated | | | | | ☐ |
| 13 | Deactivated | | | | | ☐ |
| 14 | Deactivated | | | | | ☐ |
| 15 | Deactivated | | | | | ☐ |
| 16 | Deactivated | | | | | ☐ |

## Video

You can configure the live 1, 2 and recording video properties for each active camera.

- Configure the video properties for the live 1, 2 and recording video source specified in Camera Properties.
  (To change the camera information, refer to page 17)
- In Video Properties, there are Resolution, Quality, Frame Rate, Compression, Bitrate Control, Bitrate and GOP size.

- Cameras in link with a device that does not support this function will be displayed inactive.


NET-i ware Tool
Hardware
Recording
Event
Backup
Network
System
Register
Activation
Camera
Video
Live Streaming Video Source 1
Live Streaming Video Source 2
Recording Video Source
Refresh
SAMSUNG
2012/04/17 TUE
11:23:10
Setup
Backup
Exit
admin
Logout
Apply

| No. | Camera Name | Resolution | Frame rate | Quality | Compression Ratio |
|---|---|---|---|---|---|
| 1 | 192.168.0.128:4520-1CH-01 | | | | |
| 2 | 192.168.0.91:4520-1CH-01 | SXGA(1280*1024) | 30fps | | 10 |
| 3 | 192.168.0.162:4520-1CH-01 | QXGA(2048*1536) | 20fps | | 10 |
| 4 | Deactivated | | | | |
| 5 | Deactivated | | | | |
| 6 | Deactivated | | | | |
| 7 | Deactivated | | | | |
| 8 | Deactivated | | | | |
| 9 | Deactivated | | | | |
| 10 | Deactivated | | | | |
| 11 | Deactivated | | | | |
| 12 | Deactivated | | | | |
| 13 | Deactivated | | | | |
| 14 | Deactivated | | | | |
| 15 | Deactivated | | | | |
| 16 | Deactivated | | | | |

Video profile setup

Camera Name 192.168.0.91:4520-1CH-01 ( : 1) H.264

Resolution: SXGA(1280*1024)

Frame rate: 30fps

Bitrate control:

GOP Size:

Quality:

Compression Ratio: 10

Target Bitrate: (0 ~ 0Kbps)

# RECORD SETTING

## NET-i ware

### ❖ To change the disk status

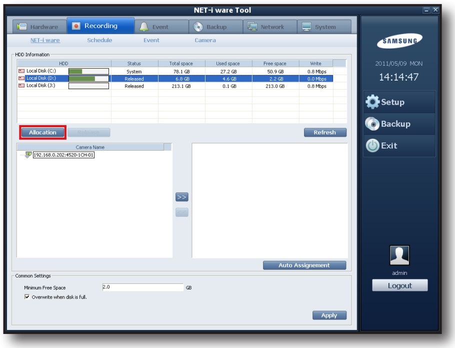
The HDD information list will show the information of the HDD currently installed. You can change the status of the local disk to Assigned or Released.

**Allocation**

If the local disk is assigned, you can record/scan/play a source.

1. Select a disk that is not assigned.
   The [**Allocation**] button will be activated.
2. Click [**Allocation**].
   The Assign dialog appears.
3. Click [**Yes**] to change the status of the disk to Assigned.
   The icon of the local disk will be displayed green.

- The system disk where the OS is installed can not be assigned.
- If there is no other disk than the system disk for recording purposes, you can not proceed with recording.


NET-i ware Tool
Hardware
Recording
Event
Backup
Network
System
NET-i ware
Schedule
Event
Camera
HDD Information
Allocation
Release
Refresh
Camera Name
>>
<<
Auto Assignement
Common Settings
Apply
SAMSUNG
2012/05/09 MON
14:14:47
Setup
Backup
Exit
admin
Logout

| HDD | Status | Total space | Used space | Free space | Write |
|---|---|---|---|---|---|
| Local Disk (C:) | System | 78.1 GB | 27.2 GB | 50.9 GB | 0.8 Mbps |
| Local Disk (D:) | Released | 6.8 GB | 4.6 GB | 2.2 GB | 0.0 Mbps |
| Local Disk (J:) | Released | 213.1 GB | 0.1 GB | 213.0 GB | 0.8 Mbps |

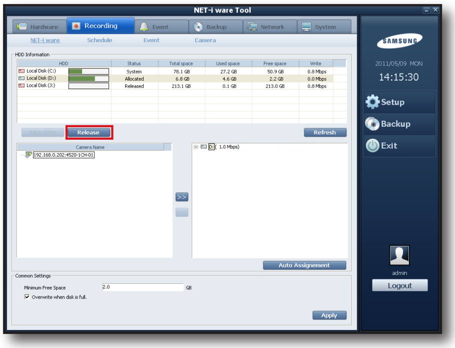
192.168.0.202:4520-1CH-01

Minimum Free Space 2.0 GB

☑ Overwrite when disk is full.

### Released

If the local disk is released, you can scan/play but not record a source.


NET-i ware Tool
Hardware
Recording
Event
Backup
Network
System
NET-i ware
Schedule
Event
Camera
Allocation
Release
Refresh
>>
<<
Auto Assignement
Apply
SAMSUNG
Setup
Backup
Exit
admin
Logout

2011/05/09 MON 14:15:30

HDD Information

| HDD | Status | Total space | Used space | Free space | Write |
|---|---|---|---|---|---|
| Local Disk (C:) | System | 78.1 GB | 27.2 GB | 50.9 GB | 0.8 Mbps |
| Local Disk (D:) | Allocated | 6.8 GB | 4.6 GB | 2.2 GB | 0.0 Mbps |
| Local Disk (J:) | Released | 213.1 GB | 0.1 GB | 213.0 GB | 0.8 Mbps |

Camera Name

192.168.0.202:4520-1CH-01

D:( 1.0 Mbps)

Common Settings

Minimum Free Space 2.0 GB

☑ Overwrite when disk is full.

1. Select a disk that is currently assigned.
   The [**Release**] button will be activated.
2. Click [**Release**].
   The Release dialog appears.
3. Click [**Yes**] to change the status of the disk to Released.
   The icon of the local disk will be displayed red.

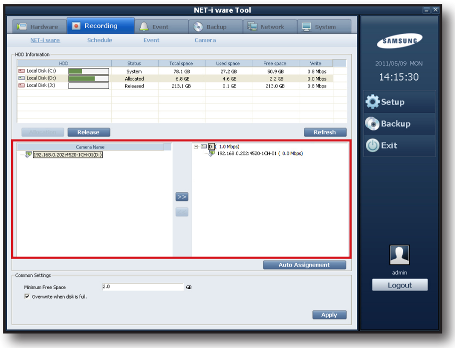
- You cannot release the disk to which unauthorized cameras are assigned by the user group.

### Refresh

Click [**Refresh**] to update information of the local disk with the latest.

## ❖ To assign a camera to each disk

You can assign a camera to each disk.


NET-i ware Tool
Hardware
Recording
Event
Backup
Network
System
NET-i ware
Schedule
Event
Camera
Allocation
Release
Refresh
>>
<<
Auto Assignement
Apply
SAMSUNG
Setup
Backup
Exit
admin
Logout

2011/05/09 MON 14:15:30

HDD Information

| HDD | Status | Total space | Used space | Free space | Write |
|---|---|---|---|---|---|
| Local Disk (C:) | System | 78.1 GB | 27.2 GB | 50.9 GB | 0.8 Mbps |
| Local Disk (D:) | Allocated | 6.8 GB | 4.6 GB | 2.2 GB | 0.0 Mbps |
| Local Disk (J:) | Released | 213.1 GB | 0.1 GB | 213.0 GB | 0.8 Mbps |

Camera Name

192.168.0.202:4520-1CH-01(D:)

D:( 1.0 Mbps)
192.168.0.202:4520-1CH-01 ( 0.0 Mbps)

Common Settings

Minimum Free Space 2.0 GB

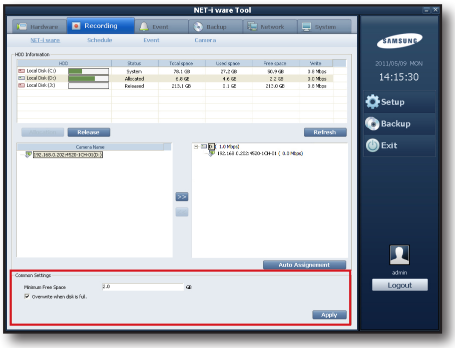
☑ Overwrite when disk is full.

1. Select a camera to assign in the left list.
2. Click [>>].
   The selected camera will be copied under the assigned disk.
   You can distribute a single camera into multiple disks.

- You can not record the source of a camera that is not assigned to a disk.
- The Auto Distribution feature will reset the camera distribution settings for each disk and perform distribution in the name order.
- Disc and camera in recording indicate the amount of written/received data.
- If exceeded allowed limit of data writing, it appears in red.
  On such an occasion, distribute cameras to other discs appropriately or set the camera's video transfer for lower transmission rate.

## ❖ Common Settings

### Minimum Free Space


NET-i ware Tool
Hardware
Recording
Event
Backup
Network
System
NET-i ware
Schedule
Event
Camera
Allocation
Release
Refresh
>>
<<
Auto Assignement
Apply
SAMSUNG
Setup
Backup
Exit
admin
Logout

2011/05/09 MON 14:15:30

HDD Information

| HDD | Status | Total space | Used space | Free space | Write |
|---|---|---|---|---|---|
| Local Disk (C:) | System | 78.1 GB | 27.2 GB | 50.9 GB | 0.8 Mbps |
| Local Disk (D:) | Allocated | 6.8 GB | 4.6 GB | 2.2 GB | 0.0 Mbps |
| Local Disk (J:) | Released | 213.1 GB | 0.1 GB | 213.0 GB | 0.8 Mbps |

Camera Name

192.168.0.202:4520-1CH-01(D:)

D:( 1.0 Mbps)
192.168.0.202:4520-1CH-01 ( 0.0 Mbps)

Common Settings

Minimum Free Space 2.0 GB

☑ Overwrite when disk is full.

You can set the minimum free disk space.
You can proceed with recording only if the free space for recording is larger than the minimum value.

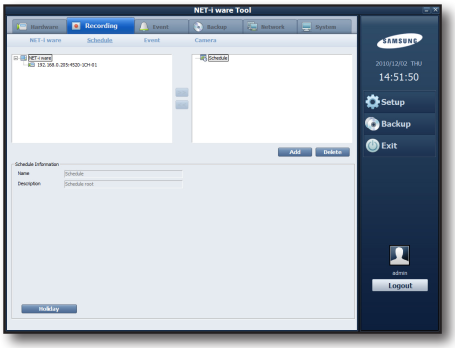
### Overwrite when disk is full.

If there is no free space on the disk, you are prompted to overwrite the existing recording file.

## Schedule

You can use NET-i ware to make scheduled recording.
NET-i ware will start or stop recording according to your schedule.
You can create a schedule and apply it to multiple cameras.
You can also create multiple schedules.

- You can create schedules for up to 64 cameras.
  - SNS-SF064 : Max. 64 Cameras / SNS-SF032 : Max. 32 Cameras / SNS-SF016 : Max. 16 Cameras


NET-i ware Tool
Hardware
Recording
Event
Backup
Network
System
NET-i ware
Schedule
Event
Camera
SAMSUNG
2010/12/02 THU
14:51:50
Setup
Backup
Exit
Add
Delete
Schedule Information
admin
Logout
Holiday

Name: Schedule
Description: Schedule root

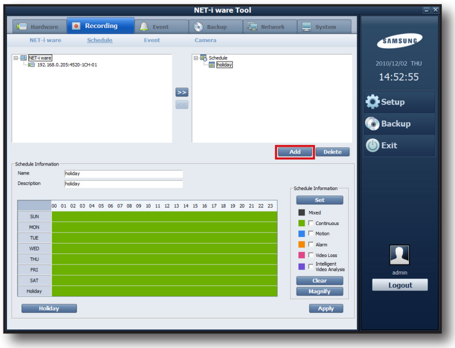
You can start scheduled recording through the following 3 steps:

1) Create a schedule
2) Set the schedule contents
3) Apply the schedule setting to the camera

You can check a list of cameras to which the same schedule is applied.

### ❖ To create a schedule

1. Click [**Add**] in the bottom of the schedule tree.
   The Add Schedule window appears.
2. Provide information in the Add Schedule window and click [**Add**].
   The default schedule is displayed in the right tree.
   - Default: Continuous Recording


NET-i ware Tool
Recording
SAMSUNG
2010/12/02 THU
14:52:55
Setup
Backup
Exit
Add
Delete
SUN
MON
TUE
WED
THU
FRI
SAT
Holiday
Set
Mixed
Continuous
Motion
Alarm
Video Loss
Intelligent Video Analysis
Clear
Magnify
admin
Logout
Holiday
Apply

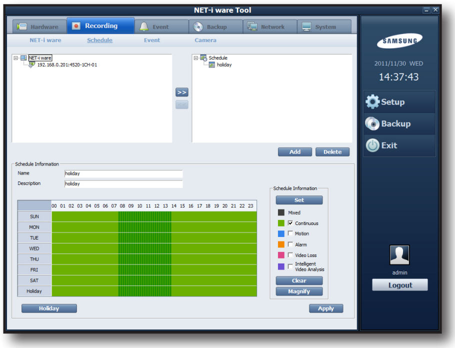
Name: holiday
Description: holiday

### ❖ To edit a schedule

You can edit the recording schedule by the minute.
You can specify the settings of Continuous/Motion/Alarm/Video Loss/Intelligent Video Analysis for each time unit.

**To edit**

1. Select the icon of a schedule to edit in the tree.
2. Enter a schedule name and description.
3. In the schedule table, drag the cursor to a specific point to specify the time range.
4. Select a desired item(s) from Continuous/Motion/Alarm/Video Loss/Intelligent Analysis, and click [**Set**].
5. Click [**Delete**] to delete the values in the selected range.
6. Click [**Apply**].
   The changes will be applied.

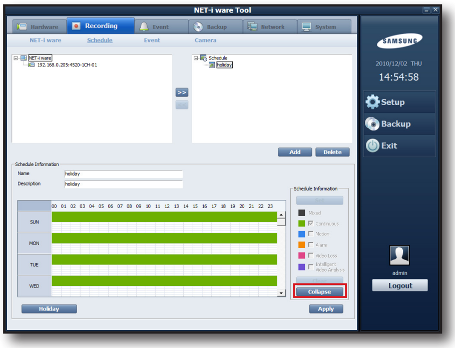

NET-i ware Tool
Recording
SAMSUNG
2011/11/30 WED
14:37:43
Setup
Backup
Exit
Add
Delete
SUN
MON
TUE
WED
THU
FRI
SAT
Holiday
Set
Mixed
Continuous
Motion
Alarm
Video Loss
Intelligent Video Analysis
Clear
Magnify
admin
Logout
Holiday
Apply

Name: holiday
Description: holiday

### To check your work

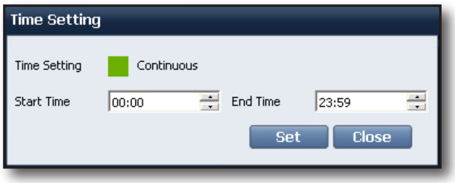
When your settings are completed, the changes will be applied.
The camera may start or stop recording, according to the setting.

- Click [**Magnify**] to extend the schedule tree so you can check the duplicate area across the time ranges.
  The [**Magnify**] button will switch to [**Collapse**] while other buttons will be grayed.


NET-i ware Tool
Hardware
Recording
Event
Backup
Network
System
NET-i ware
Schedule
Event
Camera
SAMSUNG
2010/12/02 THU
14:54:58
Setup
Backup
Exit
Add
Delete
Schedule Information
SUN
MON
TUE
WED
Collapse
Holiday
Apply
admin
Logout

Name: holiday
Description: holiday

- If you double-click a scheduled range in the table, you will see a window where you can fine tune the time settings with the start and end times at the minute's interval.
  - The minimum time range is 15 minutes.


Time Setting
Set
Close

Time Setting 🟩 Continuous
Start Time 00:00
End Time 23:59

## ❖ To delete a schedule

You can delete a schedule.

1. Select a schedule to remove from the tree and click [**Delete**] in the bottom of the tree.
   You can also delete the current schedule where recording is in process.
2. If you delete the current schedule, recordings of all cameras with the schedule setting will be stopped.

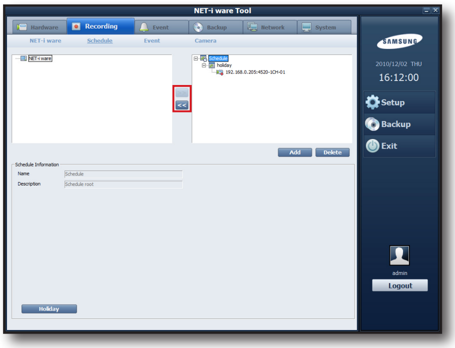
- You cannot edit or delete a schedule to which unauthorized cameras are assigned.

## ❖ To apply a schedule to a camera

You can create and apply a schedule to a camera.
If you create and apply a schedule to a camera, the camera will perform recording according to the schedule.

### To apply a schedule

1. Select a schedule to apply in the right tree.
2. Select a camera to apply in the left tree and click <>>>.
3. Select a camera in the right tree and click <<<> to cancel the schedule.


NET-i ware Tool
Hardware
Recording
Event
Backup
Network
System
NET-i ware
Schedule
Event
Camera
SAMSUNG
2010/12/02 THU
16:12:00
Setup
Backup
Exit
Add
Delete
Schedule Information
Holiday
admin
Logout

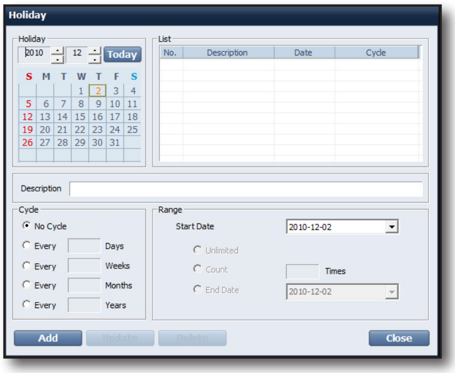
Name: Schedule
Description: Schedule root

### Holiday

You can specify a holiday and perform scheduled recording on that holiday.

You can also set the execution cycle and period for each holiday.

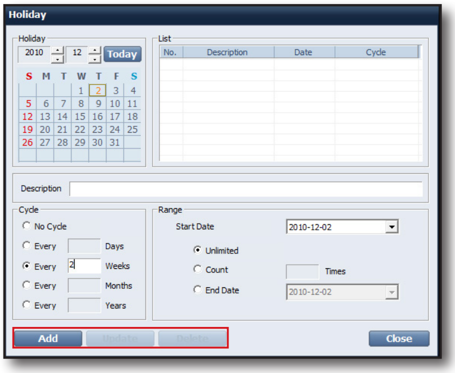
- Cycle
  - No Cycle: The holiday is effective only on that day.
  - Days: Effective at the set interval of days.
  - Weeks: Effective at the set interval of weeks.
  - Months: Effective at the set interval of months.
  - Years: Effective at the set interval of years.
- Range
  - Start Date: The first date of the holiday period.
  - Unlimited: Stays effective without the end date.
  - Count : Effective as many as the set times.
  - End Date: Effective till the specified date.


Holiday
List
No.
Description
Date
Cycle
Today
S M T W T F S
Range
Times
Add
Update
Delete
Close

Holiday: 2010 / 12
Cycle: ● No Cycle / ○ Every Days / ○ Every Weeks / ○ Every Months / ○ Every Years
Start Date: 2010-12-02
○ Unlimited / ○ Count / ○ End Date 2010-12-02

### To edit a holiday

1. Select a date in the calendar.
2. Set the cycle, end date and description, and click [**Add**].
   The created holiday will be added to the list.
   - Ex) If you select to add every second week for the holiday, your settings will be as shown.


Holiday
List
No.
Description
Date
Cycle
Today
S M T W T F S
Range
Times
Add
Update
Delete
Close

Holiday: 2010 / 12
Cycle: ○ No Cycle / ○ Every Days / ● Every 2 Weeks / ○ Every Months / ○ Every Years
Start Date: 2010-12-02
● Unlimited / ○ Count / ○ End Date 2010-12-02

### To create a holiday

1. Select a holiday to edit in the list.
2. Change the cycle, end date and description to your preference, and click [**Update**].

### To delete a holiday

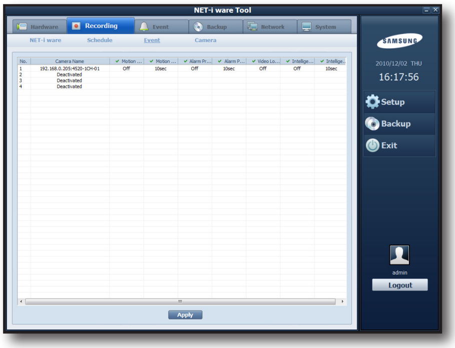
1. Select a holiday to delete in the list.
2. Click [**Delete**].
   The selected holiday will be removed.

## Recording Event

For your better understanding of the event situation, you can set the pre and post recording times based on the event occurrence point.

Pre and post images as many as specified based on the event occurrence time will be saved.

- Motion, Alarm, Intelligent Video Analysis Event: You can set both pre and post times.
- Video Loss Event: As there will be no image to record after occurrence of the event, the pre time alone can be specified.

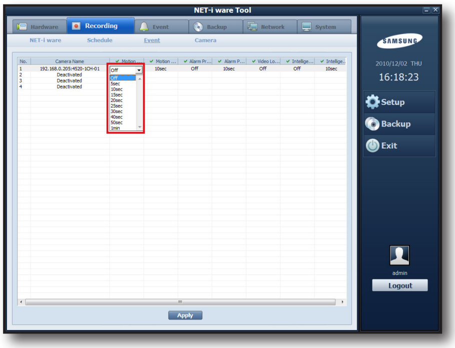

NET-i ware Tool
Hardware
Recording
Event
Backup
Network
System
NET-i ware
Schedule
Event
Camera
SAMSUNG
2010/12/02 THU
16:17:56
Setup
Backup
Exit
admin
Logout
Apply

| No. | Camera Name | ✓ Motion ... | ✓ Motion ... | ✓ Alarm Pr... | ✓ Alarm P... | ✓ Video Lo... | ✓ Intellige... | ✓ Intellige... |
|---|---|---|---|---|---|---|---|---|
| 1 | 192.168.0.205:4520-1CH-01 | Off | 10sec | Off | 10sec | Off | Off | 10sec |
| 2 | Deactivated | | | | | | | |
| 3 | Deactivated | | | | | | | |
| 4 | Deactivated | | | | | | | |

1. Select an item to record.
   If the time option is activated, you will see a list of sub items available.

   ■ If you set the time option to Off, recording will not proceed.

2. Select pre and post times to record and specify a recording time for each event.
3. Click [**Apply**] in the bottom side to save your settings.


NET-i ware Tool
Hardware
Recording
Event
Backup
Network
System
NET-i ware
Schedule
Event
Camera
Off
5sec
10sec
15sec
20sec
25sec
30sec
40sec
50sec
1min
SAMSUNG
2010/12/02 THU
16:18:23
Setup
Backup
Exit
admin
Logout
Apply

| No. | Camera Name | ✓ Motion ... | ✓ Motion ... | ✓ Alarm Pr... | ✓ Alarm P... | ✓ Video Lo... | ✓ Intellige... | ✓ Intellige... |
|---|---|---|---|---|---|---|---|---|
| 1 | 192.168.0.205:4520-1CH-01 | Off | 10sec | Off | 10sec | Off | Off | 10sec |
| 2 | Deactivated | | | | | | | |
| 3 | Deactivated | | | | | | | |
| 4 | Deactivated | | | | | | | |

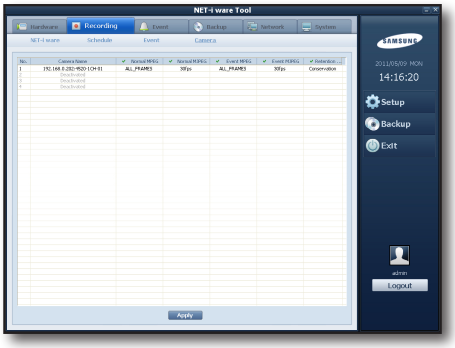
## Recording Camera

You can set the fps to save for each activated camera and recording type (normal/event).

- The normal recording type includes manual recording and continuous scheduled recording.
- Available event recording types include Motion/Alarm/Video Loss/Intelligent Video Analysis.

You can specify the storage period of a recording file for each active camera.

- An expired recording file will be deleted automatically.


NET-i ware Tool
Hardware
Recording
Event
Backup
Network
System
NET-i ware
Schedule
Event
Camera
SAMSUNG
2011/05/09 MON
14:16:20
Setup
Backup
Exit
admin
Logout
Apply

| No. | Camera Name | ✓ Normal MPEG | ✓ Normal MJPEG | ✓ Event MPEG | ✓ Event MJPEG | ✓ Retention ... |
|---|---|---|---|---|---|---|
| 1 | 192.168.0.202:4520-1CH-01 | ALL_FRAMES | 30fps | ALL_FRAMES | 30fps | Conservation |
| 2 | Deactivated | | | | | |
| 3 | Deactivated | | | | | |
| 4 | Deactivated | | | | | |

| Video Setup | Item | Description |
|---|---|---|
| MPEG | ALL FRAMES | Saves all incoming frames. |
| | KEY FRAMES | Saves only I-frame. |
| MJPEG | 1 ~ 30 | Saves as many fps as you selected. |

This will not affect the video setting.
The actual incoming frame rate from the device may differ from the setting here, and you will receive just as many frames as incoming.

- The maximum throughput of recording is 250 Mbps.
  - Recording in 3M of resolution is possible if it's not exceeding the maximum throughput.
  - For stable recording, it is recommended to use a HDD that meets the minimum specification of SATA2 7200rpm. (It is also recommended that the maximum throughput of a single HDD does not exceed 125Mbps.)
- You can search for and play the recoding data using NET-i viewer or Web Viewer.

# TO SET AN EVENT

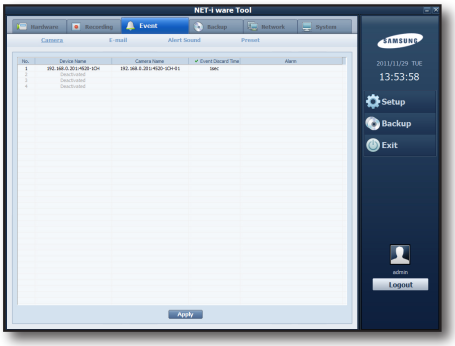
## Event Camera

You can set the event discard time for, and the Alarm Into sync with each activated camera.

The event discard time is to discard a duplicate event in the specified time range.

You can also set an Alarm In to sync with each camera, which occurs from the device.

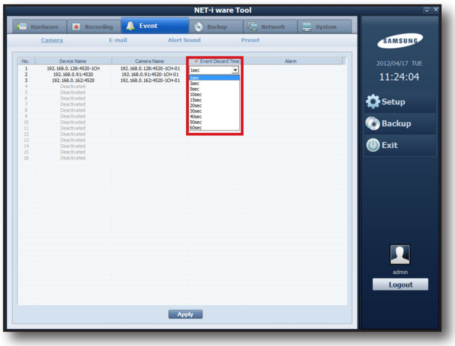
- If you did not set an Alarm In to sync: Any Alarm In from the device will not affect NET-i ware.
- If you set an Alarm In to sync: If an Alarm In occurs from the device according to the recording and event settings, scheduled recording will starts according to the recording and event settings or an e-mail will be sent.


NET-i ware Tool
Hardware
Recording
Event
Backup
Network
System
Camera
E-mail
Alert Sound
Preset
SAMSUNG
2011/11/29 TUE
13:53:58
Setup
Backup
Exit
admin
Logout
Apply

| No. | Device Name | Camera Name | ✓ Event Discard Time | Alarm |
|---|---|---|---|---|
| 1 | 192.168.0.201:4520-1CH | 192.168.0.201:4520-1CH-01 | 1sec | |
| 2 | Deactivated | | | |
| 3 | Deactivated | | | |
| 4 | Deactivated | | | |

- As long as the Alarm In function of the device is not active, the Alarm In event will not occur even if you have set the Alarm In in NET-i ware Tool.

1. In the camera menu window, click the Event Discard Time item of the connected camera.
   Time options available will be listed.
2. Select an event ignorance time.
3. Click the Alarm item and select an Alarm In to sync.
   - You can select multiple items.


NET-i ware Tool
Hardware
Recording
Event
Backup
Network
System
Camera
E-mail
Alert Sound
Preset
SAMSUNG
2012/04/17 TUE
11:24:04
Setup
Backup
Exit
admin
Logout
Apply

| No. | Device Name | Camera Name | ✓ Event Discard Time | Alarm |
|---|---|---|---|---|
| 1 | 192.168.0.128:4520-1CH | 192.168.0.128:4520-1CH-01 | 1sec | |
| 2 | 192.168.0.91:4520 | 192.168.0.91:4520-1CH-01 | | |
| 3 | 192.168.0.162:4520 | 192.168.0.162:4520-1CH-01 | | |
| 4 | Deactivated | | | |
| 5 | Deactivated | | | |
| 6 | Deactivated | | | |
| 7 | Deactivated | | | |
| 8 | Deactivated | | | |
| 9 | Deactivated | | | |
| 10 | Deactivated | | | |
| 11 | Deactivated | | | |
| 12 | Deactivated | | | |
| 13 | Deactivated | | | |
| 14 | Deactivated | | | |
| 15 | Deactivated | | | |
| 16 | Deactivated | | | |

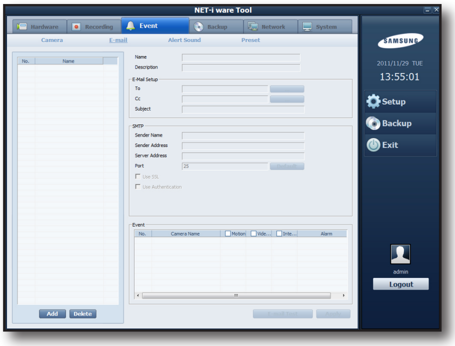
1sec
3sec
5sec
10sec
15sec
20sec
30sec
40sec
50sec
60sec

## Event Messaging

You can set to send an e-mail if an event occurs.

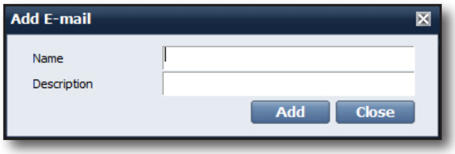
### ❖ E-mail Object Management

You can create/edit/delete an e-mail.
In the left pane of the screen, you will see the e-mail list while you can check the information of the selected e-mail in the right pane.


NET-i ware Tool
Hardware
Recording
Event
Backup
Network
System
Camera
E-mail
Alert Sound
Preset
No.
Name
Name
Description
E-Mail Setup
To
Cc
Subject
SMTP
Sender Name
Sender Address
Server Address
Port
25
Default
☐ Use SSL
☐ Use Authentication
Event
No.
Camera Name
☐ Motion
☐ Vide...
☐ Inte...
Alarm
Add
Delete
E-mail Test
Apply
SAMSUNG
2011/11/29 TUE
13:55:01
Setup
Backup
Exit
admin
Logout

## ❖ To create an e-mail

Click [**Add**] in the bottom list, and provide a name and description and click [**Add**] in the dialog.
An e-mail of the default settings will be created.


Add E-mail
Name
Description
Add
Close

## ❖ To edit an e-mail

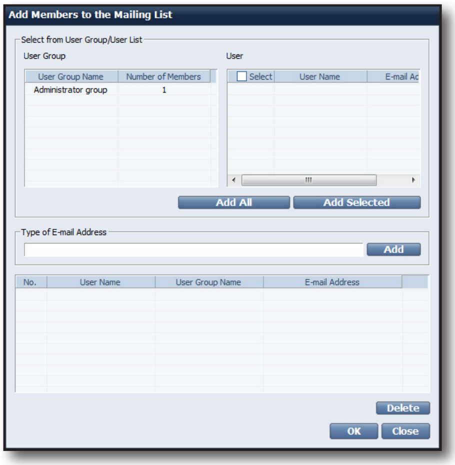
Change the name, description or subject in the E-mail page.

### To add a recipient or CC

1. Click [**Add**].

### Using the user information that is already registered with NET-i ware

1. Click [**Add All**] or select a desired user and click [**Add Selected**].
   Or, provide an e-mail address and click [**Add**].
   The e-mail address that you added will be displayed in the bottom list.
   When done, click [**OK**].
2. Change the mail server settings as necessary, including: sender, receiver, server address, server port, enable authentication, ID, password, and enable SSL.
   - Press the [**Default**] button to set the server port number as default.


Add Members to the Mailing List
Select from User Group/User List
User Group
User
Select
User Name
E-mail Ac
Add All
Add Selected
Type of E-mail Address
Add
No.
User Name
User Group Name
E-mail Address
Delete
OK
Close

| User Group Name | Number of Members |
|---|---|
| Administrator group | 1 |

3. For your preferred transfer settings, select a desired item(s) from Motion, Video Loss, Intelligent Video Analysis and Alarm for each camera.
4. To save your work, click [**Apply**].

## ❖ To delete an e-mail

Select an e-mail in the list and click [**Delete**].

## ❖ To transfer an e-mail

When the e-mail transfer conditions are completed, an e-mail will be sent to the recipient(s) with the CC at the moment an event occurs from the camera.

- The e-mail message includes the camera name, event type and event occurrence time.
- If there is a JPEG image recorded at the event occurrence time, it will also be attached to the e-mail.

# EVENT ALERT SOUND

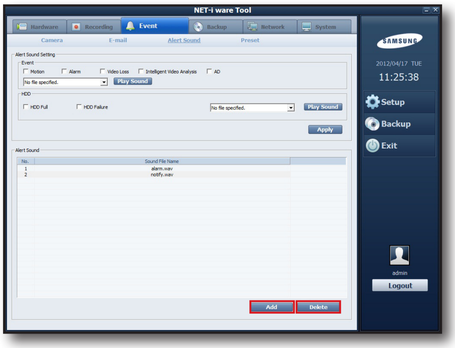
This function is to sound the alert upon the occurrence of an event.

## ❖ To register an alert sound file

You can register an alert sound file to use.

- Only the wav format is supported.
  By default, two wav files are provided:
- alarm.wav, notify.wav

1. Click [**Add**] in the bottom corner.
2. Select an alert sound file to use.
   The selected file will be registered.
3. To delete an already registered alert sound file, select a file in the list and click [**Delete**].


NET-i ware Tool
Hardware
Recording
Event
Backup
Network
System
Camera
E-mail
Alert Sound
Preset
Alert Sound Setting
Event
☐ Motion
☐ Alarm
☐ Video Loss
☐ Intelligent Video Analysis
☐ AD
No file specified.
Play Sound
HDD
☐ HDD Full
☐ HDD Failure
No file specified.
Play Sound
Apply
Alert Sound
Add
Delete
SAMSUNG
2012/04/17 TUE
11:25:38
Setup
Backup
Exit
admin
Logout

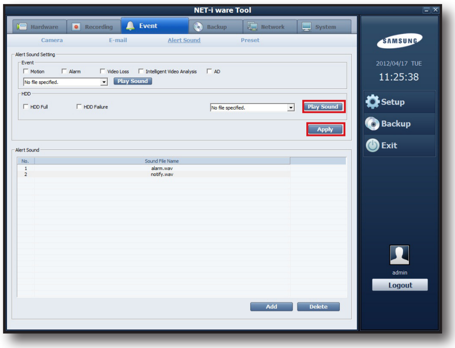
| No. | Sound File Name |
|---|---|
| 1 | alarm.wav |
| 2 | notify.wav |

## ❖ To set an event

You can specify an event for which the alert sound will be output. Event types available are as follows:

- Motion: If a motion event is incoming from the connected device
- Alarm: If an alarm event is incoming from the connected device
- Video Loss: If a video loss event is incoming from the connected device
- Intelligent Video Analysis: If receiving an intelligent video analysis event from the device
- HDD Full: The HDD is full and can not store any more
- HDD Failure: The HDD is out of order and can not store data.

1. Select an alert sound in the list to output when a device or HDD event occurs.
2. Click [**Play Sound**] to listen to the sound in advance.
3. Click [**Apply**] to save the changes.


NET-i ware Tool
Hardware
Recording
Event
Backup
Network
System
Camera
E-mail
Alert Sound
Preset
Alert Sound Setting
Event
☐ Motion
☐ Alarm
☐ Video Loss
☐ Intelligent Video Analysis
☐ AD
No file specified.
Play Sound
HDD
☐ HDD Full
☐ HDD Failure
No file specified.
Play Sound
Apply
Alert Sound
Add
Delete
SAMSUNG
2012/04/17 TUE
11:25:38
Setup
Backup
Exit
admin
Logout

| No. | Sound File Name |
|---|---|
| 1 | alarm.wav |
| 2 | notify.wav |

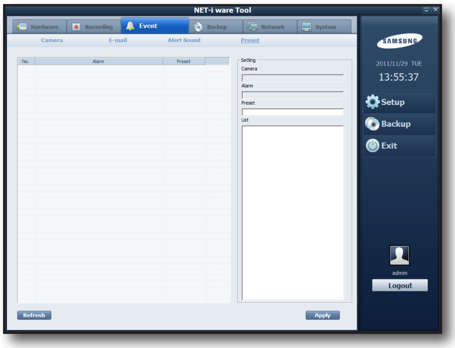
# EVENT PRESET

This enables you to move the camera preset at the moment an alarm occurs.

## ❖ Preset settings

Specify a preset to which the current preset is moved when an alarm occurs.

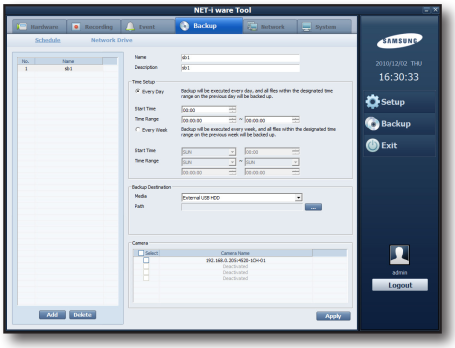
- This is enabled only when the device supports the alarm event and preset features.
  You must specify the alarm that is used in the event camera setup page.
- Press Refresh to update the current preset list.


NET-i ware Tool
Hardware
Recording
Event
Backup
Network
System
Camera
E-mail
Alert Sound
Preset
No.
Alarm
Preset
Setting
Camera
Alarm
Preset
List
Refresh
Apply
SAMSUNG
2011/11/29 TUE
13:55:37
Setup
Backup
Exit
admin
Logout

## BACKUP SETTING

### Schedule Backup

You can backup stored data according to the schedule that you set.


NET-i ware Tool
Hardware
Recording
Event
Backup
Network
System
Schedule
Network Drive
SAMSUNG
Setup
Backup
Exit
admin
Logout
Add
Delete
Apply

| No. | Name |
|---|---|
| 1 | sb1 |

Name: sb1
Description: sb1
Time Setup
● Every Day — Backup will be executed every day, and all files within the designated time range on the previous day will be backed up.
Start Time: 00:00
Time Range: 00:00:00 ~ 00:00:00
○ Every Week — Backup will be executed every week, and all files within the designated time range on the previous week will be backed up.
Start Time: SUN 00:00
Time Range: SUN ~ SUN 00:00:00 00:00:00
Backup Destination
Media: External USB HDD
Path:
Camera

| ☐ Select | Camera Name |
|---|---|
| ☐ | 192.168.0.205:4520-1CH-01 |
| ☐ | Deactivated |
| ☐ | Deactivated |
| ☐ | Deactivated |

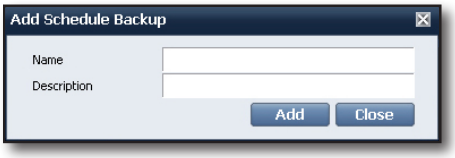
2010/12/02 THU
16:30:33

### ❖ Schedule Backup Management

You can create/edit/delete a schedule backup.
In the left pane of the screen, you will see the schedule backup list while you can check the information of the selected schedule in the right pane.

### ❖ To create a schedule backup

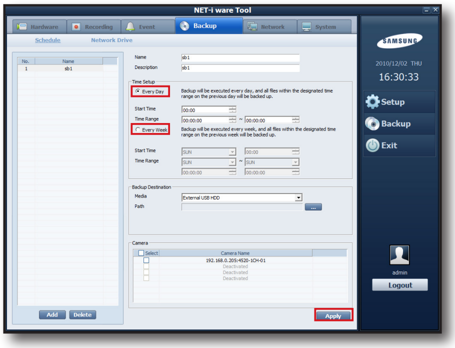
1. Click [**Add**] in the bottom list. You will see the Add Schedule Backup dialog.
2. Provide a name and description in the dialog and click [**Add**]. A schedule backup of the default settings will be created.


Add Schedule Backup
Name
Description
Add
Close

### ❖ To edit a schedule backup

You can change the schedule backup name and description.

1. Change the schedule backup cycle and range.
   Select [**Every Day**] or [**Every Week**] for the backup cycle.
   - Enter the schedule backup start time and range.
2. Select an item to backup the schedule.
   You can specify a path for the external usb HDD and Network Drive as it is supported.


NET-i ware Tool
Hardware
Recording
Event
Backup
Network
System
Schedule
Network Drive
SAMSUNG
Setup
Backup
Exit
admin
Logout
Add
Delete
Apply

| No. | Name |
|---|---|
| 1 | sb1 |

Name: sb1
Description: sb1
Time Setup
● Every Day — Backup will be executed every day, and all files within the designated time range on the previous day will be backed up.
Start Time: 00:00
Time Range: 00:00:00 ~ 00:00:00
○ Every Week — Backup will be executed every week, and all files within the designated time range on the previous week will be backed up.
Start Time: SUN 00:00
Time Range: SUN ~ SUN 00:00:00 00:00:00
Backup Destination
Media: External USB HDD
Path:
Camera

| ☐ Select | Camera Name |
|---|---|
| ☐ | 192.168.0.205:4520-1CH-01 |
| ☐ | Deactivated |
| ☐ | Deactivated |
| ☐ | Deactivated |

2010/12/02 THU
16:30:33

- You can use only those drives that can be recognized by the operating system.
- If you select a network drive for the media, enter a valid ID and password for the backup media. If any of them is invalid, the schedule backup may not be performed normally.
- If you cannot find any network drive in the folder browser, restart the NET-i ware Tool program.

3. Select multiple cameras to backup the schedule.
4. Click [**Apply**] to save the changes.

### ❖ To delete a schedule backup

Select a schedule backup in the schedule backup list and click [**Delete**].

### ❖ To perform and play the schedule backup

Schedule backup will perform according to the schedule that you set.

- If you set the schedule backup cycle to Every Day: Recording data one day before within the backup range will be backed up.
- If you set the schedule backup cycle to Every Week: Recording data one week before within the backup range will be backed up.
- Path for the schedule backup file: User specified path\NIWData\Camera ID\Recording Date\Sstart-end_ID_0000(1).rec1
  The camera ID is created based on the MAC address of the device and other information.

- 4 digits trailing ID is overlapping index, where smallest number is the latest recording.
- Parenthesized number is the distinguisher for same filenames.
- You can play the schedule backup file using the video playback function of NET-i viewer.

## Network drive

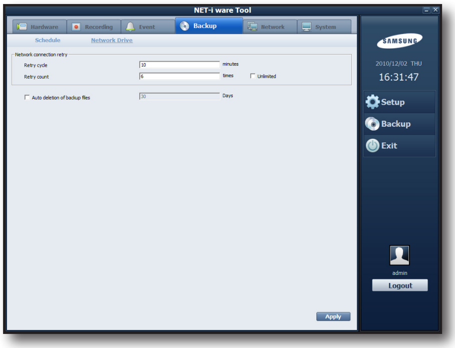
If you use the network drive to perform the schedule backup, you can configure the settings for the network connection retry and auto deletion of the backup files.

### ❖ Network connection retry

If the network is disconnected at the start of the schedule backup, it will try to connect again according to the specified cycle and times.

### ❖ Auto deletion of backup files

Any backup file earlier than the specified auto deletion date will be deleted at the start of the schedule backup.


NET-i ware Tool
Hardware
Recording
Event
Backup
Network
System
Schedule
Network Drive
SAMSUNG
2010/12/02 THU
16:31:47
Setup
Backup
Exit
admin
Logout
Apply

Network connection retry

Retry cycle 10 minutes

Retry count 6 times ☐ Unlimited

☐ Auto deletion of backup files 30 Days

# NETWORK SETTING

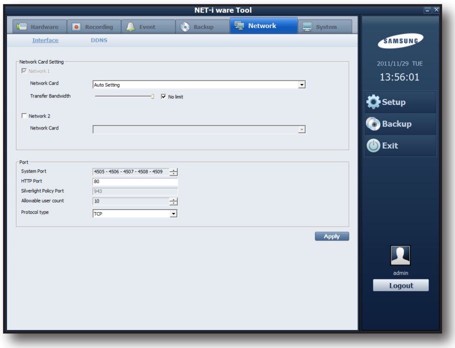
You can check and configure the settings for accessing NET-i viewer and web viewer.

## Interface

### ❖ Network Access Count

You can specify the number of networks that you want to access.

1. Check a network that you want to access.
   - If accessing a single network: Uncheck the option of "Enable Network 2". If accessing only one network, all communications with NET-i ware and external devices,will be via the selected network.
   - If accessing two networks: Check "Use network 2."
     If this is the case, communications with NET i-ware will be via network 1 while communications with external devices will be through network 2, which will distribute the network load (traffic).
2. Click [**Apply**] to save the changes.


NET-i ware Tool
Hardware
Recording
Event
Backup
Network
System
Interface
DDNS
SAMSUNG
2011/11/29 TUE
13:56:01
Setup
Backup
Exit
admin
Logout
Apply

Network Card Setting

☑ Network 1

Network Card Auto Setting

Transfer Bandwidth ☑ No limit

☐ Network 2

Network Card

Port

System Port 4505 - 4506 - 4507 - 4508 - 4509

HTTP Port 80

Silverlight Policy Port 943

Allowable user count 10

Protocol type TCP

### ❖ To select a network

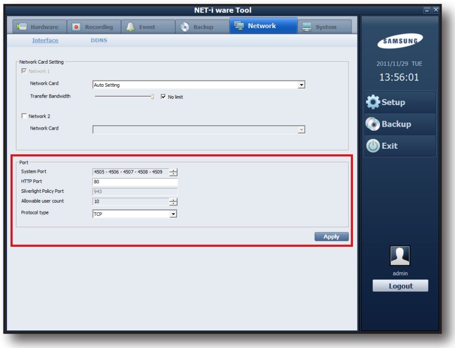
Select one from network 1 and network 2, which is installed and in service on the PC.
For network 1, you can change the bandwidth if you want.

- If the network setting is changed, the NET-i ware service will restart.

### ❖ Port Setting

1. Set the port range to use.
   For the concurrent user count, you can specify 10 users for TCP/UDP (Unicast), and up to 20 for UDP (Multicast).
   You can specify the client program and protocol type.
   - TCP
   - UDP (Unicast)
   - UDP (Multicast): Provide the multicast address, port and TTL.
2. Click [**Apply**] to save the changes.

- To enable a connection method of UDP (Multicast), you must configure the network setting so that it supports multicasting.
  - It is recommended to use a switch device supporting Layer 3 or higher.


NET-i ware Tool
Hardware
Recording
Event
Backup
Network
System
Interface
DDNS
SAMSUNG
Setup
Backup
Exit
admin
Logout
Apply

2011/11/29 TUE
13:56:01

Network Card Setting
☑ Network 1
Network Card: Auto Setting
Transfer Bandwidth: ☑ No limit
☐ Network 2
Network Card:

Port
System Port: 4505 - 4506 - 4507 - 4508 - 4509
HTTP Port: 80
Silverlight Policy Port: 943
Allowable user count: 10
Protocol type: TCP

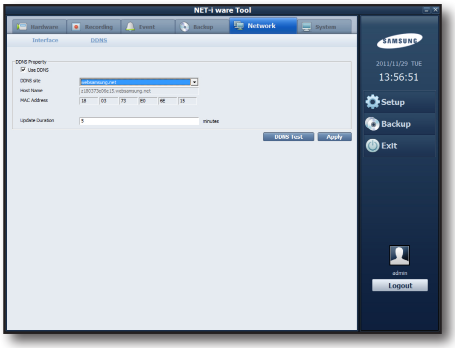
## Network DDNS

Register DDNS with NET-i ware.

- Provided DDNSs are as follows:

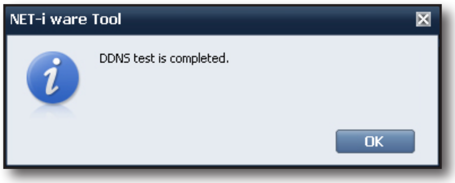
- websamsung.net
- dyndns.com (Private DDNS)
- no-ip.com (Private DDNS)
- changeip.com (Private DDNS)
- samsungipolis.com

1. Select a DDNS to use.
   - websamsung.net can be registered without additional settings.
   - If selecting the private DDNS option, you must provide the product ID, user name and password so that it can be registered.
2. Click [**DDNS Test**] to check if it can be registered properly.
   If registration succeeds, you will see the confirmation window.
3. You can set the update cycle by the minute and register it with DDNS periodically.
4. Click [**Apply**] to save the changes.


NET-i ware Tool
Hardware
Recording
Event
Backup
Network
System
Interface
DDNS
SAMSUNG
Setup
Backup
Exit
admin
Logout
DDNS Test
Apply

2011/11/29 TUE
13:56:51

DDNS Property
☑ Use DDNS
DDNS site: websamsung.net
Host Name: z180373e06e15.websamsung.net
MAC Address: 18 03 73 E0 6E 15
Update Duration: 5 minutes


NET-i ware Tool
OK

DDNS test is completed.

- Once you registered DDNS with NET-i ware, you can register NET-i ware using the URL of the DDNS.

# SYSTEM SETTING

## System User

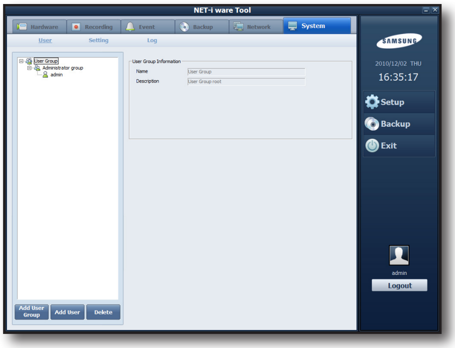
You can register users and user groups and set the necessary permissions.

The default user (admin) and user group with the manager permissions are provided.

- The users (groups) are of parent-child relationship with each other.
- A user group can own more than one user.

■ The user can not own other user or user group.

■ The default password for the default user is 4321.
For security purposes, change the password for the default user.


NET-i ware Tool
Hardware
Recording
Event
Backup
Network
System
User
Setting
Log
SAMSUNG
2010/12/02 THU
16:35:17
Setup
Backup
Exit
admin
Logout
Add User Group
Add User
Delete

User Group
Administrator group
admin

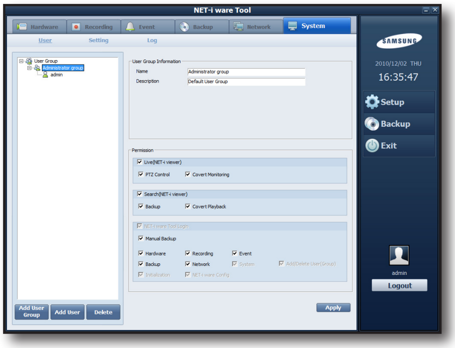
User Group Information

Name: User Group

Description: User Group root

### ❖ User (Group) Management

You can create/edit/delete a user (group).
In the left list of the System User setting window, there displays the user (group) tree; in the right pane, you can check information of the selected user (group).


NET-i ware Tool
Hardware
Recording
Event
Backup
Network
System
User
Setting
Log
SAMSUNG
2010/12/02 THU
16:35:47
Setup
Backup
Exit
admin
Logout
Add User Group
Add User
Delete
Apply

User Group
Administrator group
admin

User Group Information

Name: Administrator group

Description: Default User Group

Permission

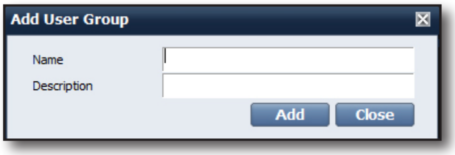
☑ Live(NET-i viewer)
☑ PTZ Control ☑ Covert Monitoring

☑ Search(NET-i viewer)
☑ Backup ☑ Covert Playback

☑ NET-i ware Tool Login
☑ Manual Backup
☑ Hardware ☑ Recording ☑ Event
☑ Backup ☑ Network ☑ System ☑ Add/Delete User(Group)
☑ Initialization ☑ NET-i ware Config

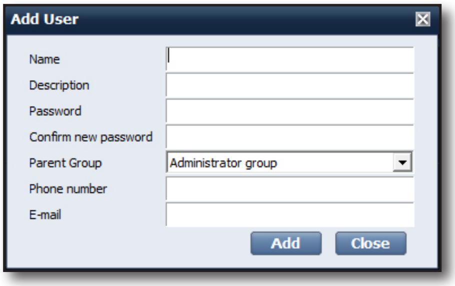
### ❖ To create a user group

1. Select a user group to use as parent in the tree, and click [**Add User Group**] in the bottom list.
2. Provide a name and description in the Add User Group window, and click [**Add**].


Add User Group
Name
Description
Add
Close

### ❖ To create a user account

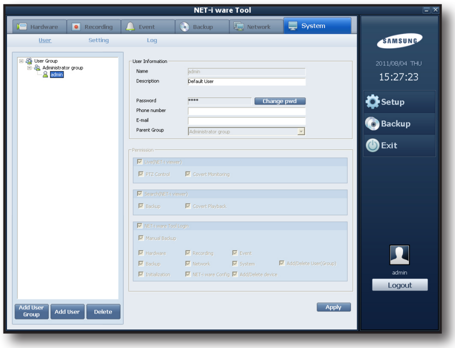
1. Select a user group to use as parent in the tree, and click [**Add User**] in the bottom list.
2. Provide a name, description, password, phone number and e-mail address in the Add User window, and click [**Add**].
3. The user account will be created under the selected parent.
   - If you did not select a parent user group, the user account will be created under the default user group.


Add User
Name
Description
Password
Confirm new password
Phone number
E-mail
Add
Close

Parent Group: Administrator group

# Setup

## ❖ To edit a user (Group) account


NET-i ware Tool
Hardware
Recording
Event
Backup
Network
System
User
Setting
Log
User Group
Administrator group
admin
SAMSUNG
2011/08/04 THU
15:27:23
Setup
Backup
Exit
admin
Logout
Change pwd
Add User Group
Add User
Delete
Apply

User Information
Name: admin
Description: Default User
Password: ****
Phone number:
E-mail:
Parent Group: Administrator group

Permission
☑ Live(NET-i viewer)
☑ PTZ Control ☑ Covert Monitoring
☑ Search(NET-i viewer)
☑ Backup ☑ Covert Playback
☑ NET-i ware Tool Login
☑ Manual Backup
☑ Hardware ☑ Recording ☑ Event
☑ Backup ☑ Network ☑ System ☑ Add/Delete User(Group)
☑ Initialization ☑ NET-i ware Config ☑ Add/Delete device

1. Select a user (group) account to edit in the tree of the System User page.
   - ■ For the user group, you can change the following settings:
     - Name, Description
     - Permission
       Live (NET-i viewer) : Monitoring, PTZ Control, Covert Monitoring
       - ▪ Covert Monitoring: You can monitor the camera image of which the Covert function is set to On.

       Search (NET-i viewer): Playback, Backup, Covert Playback
       - ▪ Covert Playback: You can play the camera image of which the Covert function is set to On.

       NET-i ware Tool Login: Manual backup, hardware, recording, event, backup, network, system
       - ▪ Camera access permission : You can set or cancel the access permission to each camera.

- ▪ The admin user has the following permissions:
  - Add/delete a user (group)
  - Change monitoring a user (group)
  - Initialize
  - Configure NET-i ware settings
  - Add/Delete Device
  - Change the camera access permission
  - Automatic permission to an additional camera

   - ■ As a user, you can change the following settings:
     - Name, Description
     - Password
     - Phone Number
     - E-mail Address
     - Parent User Group (You can also use the drag-and-drop method to edit user information in the tree.)
       - ▪ The default user can not change its parent user group.
     - Permissions can not be changed and will inherit from the parent user group.
2. Click [**Apply**] to save the changes.

## ❖ To delete a user (group) account

Select a user (group) account to delete in the tree of the System User page, and click [**Delete**].

- ▪ If you delete a user group, its child users (or user groups) will be deleted accordingly.

## ❖ User Login

If you log in to NET-i ware from NET-i ware Tool or NET-i viewer, the functions will be limited according to the user permission.

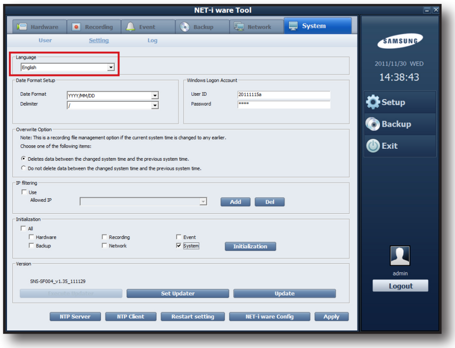
## System Setting

You can configure the system settings of NET-i ware.

### ❖ Language

You can set a preferred language for the program.
Select one from Korean, English, Chinese, French, German, Italian, Russian, Spanish, Japanese, Turkish, Czech, Polish, Serbian, Rumanian, Portuguese, Dutch, Croatian, Hungarian, Greek, Taiwanese, Swedish, Danish, Norwegian and Finnish.

- The default will be the language of the operating system and, if you select a language that is not supported by the OS, English will be selected.
- Check the followings if the change of the language is not applied:
  - If there is a language pack for the selected language, install the language pack first.
  - Windows XP/Windows 2003
    Select the appropriate language in [Control Panel – Regional and Language Options – Regional Options] and [Control Panel – Regional and Language Options – Advanced].
  - Windows Vista
    Select the appropriate language in [Control Panel – Regional and Language Options – Form] and [Control Panel – Regional and Language Options – Keyboard and Language – Normal].



2011/11/30 WED
14:38:43

Language: English

Date Format Setup
Date Format: YYYY/MM/DD
Delimiter: /

Windows Logon Account
User ID: 20111115a
Password: ****

Overwrite Option
Note: This is a recording file management option if the current system time is changed to any earlier.
Choose one of the following items:
● Deletes data between the changed system time and the previous system time.
○ Do not delete data between the changed system time and the previous system time.

IP filtering
☐ Use
Allowed IP

Initialization
☐ All
☐ Hardware ☐ Recording ☐ Event
☐ Backup ☐ Network ☑ System

Version
SNS-SF004_v1.35_111129

### ❖ Windows Logon Account Setting

You must create a Windows logon account before you can back up schedules using a network drive.

- The Windows logon account is information required to log onto the Windows OS of your PC.
  You can check your Windows logon account in Control Panel – Administrative Tools – Computer Management – Local Users and Groups.
- Once a valid Windows logon account is created, you may need to restart the system.

### ❖ Overwrite Options

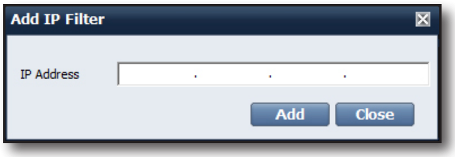
If you change the PC time behind the current time, you can select to delete data recorded later than the changed time.

- If you do not delete the data, the data may be redundant in the overlapped time range.
- If changed your computer's standard time (GMT/DST), you need to restart your computer for proper NET-i ware operation.

### ❖ IP filtering

Specify the use of the IP filtering option.
You can also add or delete an allowable IP.
If you use the IP filtering function, you can log in to NET-i ware from NET-i viewer using only an allowable IP.

1. If you want to use the IP filtering, check the applicable option item.
2. Click [**Add**].
3. Enter an IP address and click [**Add**].
4. Click [**Apply**] to save your settings.

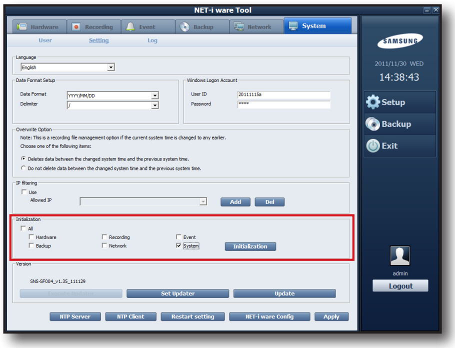


## ❖ Initialization

This will restore the NET-i ware settings to the default.
Select a desired item to reset.
Items that can be reset are as below:

- All: Resets all settings.
- Hardware: Resets the hardware settings.
- Recording: Resets the record settings.
- Event: Resets the event settings.
- Backup: Resets the backup settings.
- Network: Resets the network settings.
- System: Resets the system settings.
  For the language, it will be reset to the language set by the OS.

1. Select an item to reset.
2. Click [**Initialization**] in the right corner. If you reset an item, the NET-i ware service will restart and display the Reconnect dialog.


NET-i ware Tool
Hardware
Recording
Event
Backup
Network
System
User
Setting
Log
SAMSUNG
2011/11/30 WED
14:38:43
Setup
Backup
Exit
admin
Logout
Add
Del
Initialization
Set Updater
Update
NTP Server
NTP Client
Restart setting
NET-i ware Config
Apply

Language: English

Date Format Setup
Date Format: YYYY/MM/DD
Delimiter: /

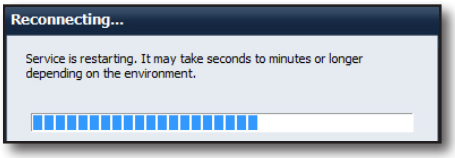
Windows Logon Account
User ID: 20111115a
Password: ****

Overwrite Option
Note: This is a recording file management option if the current system time is changed to any earlier.
Choose one of the following items:
● Deletes data between the changed system time and the previous system time.
○ Do not delete data between the changed system time and the previous system time.

IP filtering
☐ Use
Allowed IP

Initialization
☐ All
☐ Hardware ☐ Recording ☐ Event
☐ Backup ☐ Network ☑ System

Version
SNS-SF004_v1.35_111129


Reconnecting...

Service is restarting. It may take seconds to minutes or longer depending on the environment.

## ❖ Version

Displays the version of NET-i ware.

### NET-i ware Updater

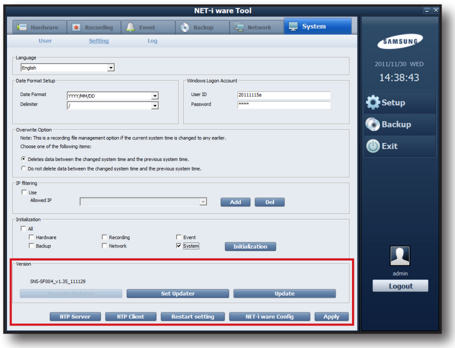
Performs the NET-i ware Updater manually.

### Setting Updater

You can set the auto update.

### Update

You can perform the update manually.


NET-i ware Tool
Hardware
Recording
Event
Backup
Network
System
User
Setting
Log
SAMSUNG
2011/11/30 WED
14:38:43
Setup
Backup
Exit
admin
Logout
Add
Del
Initialization
Set Updater
Update
NTP Server
NTP Client
Restart setting
NET-i ware Config
Apply

Language: English

Date Format Setup
Date Format: YYYY/MM/DD
Delimiter: /

Windows Logon Account
User ID: 20111115a
Password: ****

Overwrite Option
Note: This is a recording file management option if the current system time is changed to any earlier.
Choose one of the following items:
● Deletes data between the changed system time and the previous system time.
○ Do not delete data between the changed system time and the previous system time.

IP filtering
☐ Use
Allowed IP

Initialization
☐ All
☐ Hardware ☐ Recording ☐ Event
☐ Backup ☐ Network ☑ System

Version
SNS-SF004_v1.35_111129

## ❖ NTP Server

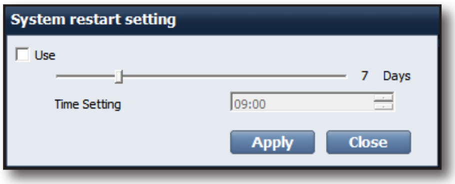
You can check the service status and address of the NTP server.
You can start or stop operating the NTP server service.

## ❖ NTP Client

Specify the NTP server for time synchronization.
You can change the PC time manually.
You can specify the frequency that the time synchronization is performed on a regular basis.

## ❖ System restart setting

You can specify the activation frequency and time to restart the vsystem (PC).


System restart setting

☐ Use

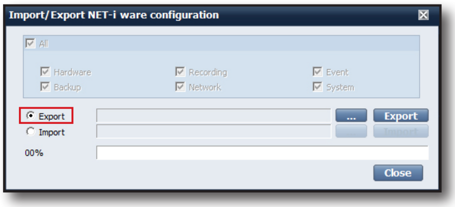
7 Days

Time Setting 09:00

## ❖ Import/Export NET-i ware Configuration

You can extract the NET-i ware settings and apply them to the NET-i ware that is installed on other PC.
Recording data can not be imported / exported.

### Export NET-i ware Configuration


Import/Export NET-i ware configuration

☑ All

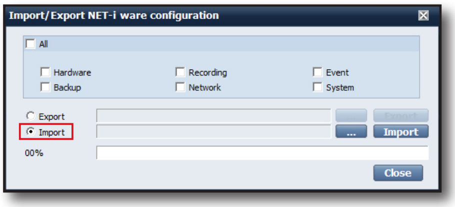
☑ Hardware ☑ Recording ☑ Event
☑ Backup ☑ Network ☑ System

● Export
○ Import

00%

1. Click [**NET-i ware Config**] in the bottom.
   You will see the Import/Export NET-i ware Configuration dialog.
2. Select Export and specify a file path.
3. Click [**Export**].
   All settings are created as a file.

### Import NET-i ware Configuration


Import/Export NET-i ware configuration

☐ All

☐ Hardware ☐ Recording ☐ Event
☐ Backup ☐ Network ☐ System

○ Export
● Import

00%

1. Click [**NET-i ware Config**] in the bottom.
   You will see the Import/Export NET-i ware Configuration dialog.
2. Select an item to import and click Import.
   The Import button will be activated.
3. Select a file path and click [**Import**].

## System Log

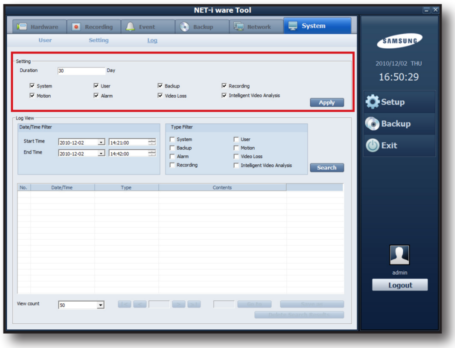
You can set to save the log and search for a stored log.

### ❖ Log Setting

Only logs in the set period will be saved, and those that expire will be deleted automatically.

Set the type of the log to save.

- Log types available are as follows:
  - System: Start/Stop service, HDD Full and Write Error, Time Change, Initialization
  - User: User Login/Logout
  - Backup: Start/Stop Backup and Backup Failure
  - Recording: Start/Stop Recording/Recording Failed
  - Motion: Motion detection event of the device
  - Alarm: Alarm event of the device
  - Video Loss: Video loss event of the device
  - Intelligent Video Analysis: An intelligent video analysis event of the device


NET-i ware Tool
Hardware
Recording
Event
Backup
Network
System
User
Setting
Log
Apply
Search
SAMSUNG
Setup
Backup
Exit
Logout
|<
<
>
>|
Go to
Save as
Delete Search Results

Setting
Duration 30 Day
☑ System ☑ User ☑ Backup ☑ Recording
☑ Motion ☑ Alarm ☑ Video Loss ☑ Intelligent Video Analysis

Log View
Date/Time Filter
Start Time 2010-12-02 14:21:00
End Time 2010-12-02 14:42:00
Type Filter
☐ System ☐ User
☐ Backup ☐ Motion
☐ Alarm ☐ Video Loss
☐ Recording ☐ Intelligent Video Analysis

| No. | Date/Time | Type | Contents |
|---|---|---|---|

View count 50

2010/12/02 THU
16:50:29
admin

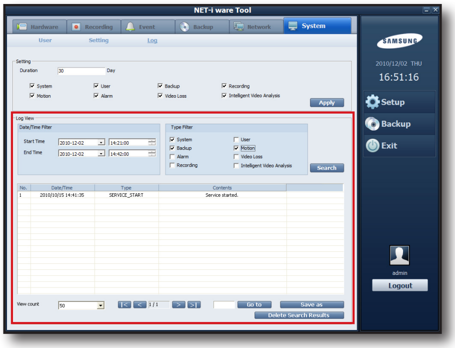
1. Provide a log storage period.
   - Storage Period: 1~365 days
2. Check to select a log type.
3. Click [**Apply**] to save your settings.

- Up to 20,000 logs can be saved, and if the log count exceeds the maximum, the logs will be backed up as a file with the oldest first. You can check the backup logs in the following path:
  "Log" folder under the installation folder of NET-i ware.
  ex) C:\Program Files\Samsung\NET-i ware\log

### ❖ To search for a log

You can set the log search criteria for your search.

1. Provide the date/time settings for the log search range.
   Provide the search range including the time unit of second.
2. Check to select a search type.
3. Click [**Search**].
   Logs meeting the search criteria will be listed.
4. You can set the log count per page in [**View Count**].
   You can scroll through the pages to move to the previous or next page in a long list.
5. Click [**Save As**] to export the logs in the current page.
6. Click [**Delete Search Results**] to delete searched logs.
   Deleted logs are not searched.


NET-i ware Tool
Hardware
Recording
Event
Backup
Network
System
User
Setting
Log
Apply
Search
SAMSUNG
Setup
Backup
Exit
Logout
|<
<
>
>|
Go to
Save as
Delete Search Results

Setting
Duration 30 Day
☑ System ☑ User ☑ Backup ☑ Recording
☑ Motion ☑ Alarm ☑ Video Loss ☑ Intelligent Video Analysis

Log View
Date/Time Filter
Start Time 2010-12-02 14:21:00
End Time 2010-12-02 14:42:00
Type Filter
☑ System ☐ User
☑ Backup ☑ Motion
☐ Alarm ☐ Video Loss
☐ Recording ☐ Intelligent Video Analysis

| No. | Date/Time | Type | Contents |
|---|---|---|---|
| 1 | 2010/10/15 14:41:35 | SERVICE_START | Service started. |

View count 50
1 / 1

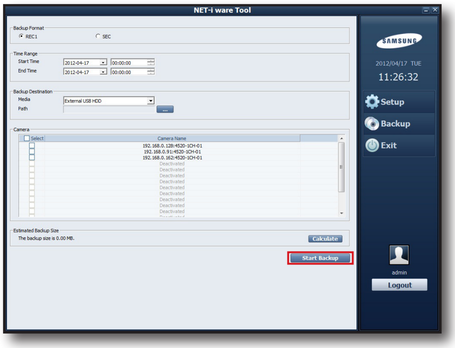
2010/12/02 THU
16:51:16
admin

# Backup

## TO BACKUP DATA

You can search for and backup desired data manually.

1. Click [**Backup**] in the right corner of the main page.
2. Select a backup file format, time, storage device and backup data and click [**Start Backup**] to backup the selected data.



2012/04/17 TUE
11:26:32

Backup Format
● REC1 ○ SEC

Time Range
Start Time 2012-04-17 00:00:00
End Time 2012-04-17 00:00:00

Backup Destination
Media External USB HDD
Path

Camera

| ☐ Select | Camera Name |
|---|---|
| ☐ | 192.168.0.128:4520-1CH-01 |
| ☐ | 192.168.0.91:4520-1CH-01 |
| ☐ | 192.168.0.162:4520-1CH-01 |
| ☐ | Deactivated |
| ☐ | Deactivated |
| ☐ | Deactivated |
| ☐ | Deactivated |
| ☐ | Deactivated |
| ☐ | Deactivated |
| ☐ | Deactivated |
| ☐ | Deactivated |
| ☐ | Deactivated |

Estimated Backup Size
The backup size is 0.00 MB.

### Backup File Format

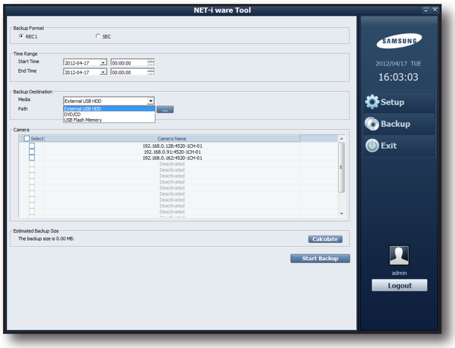
Select a backup file format from REC1 and SEC.

- REC1 : File format that can be played using the video playback function in the Search Viewer of NET-i viewer.
- SEC : File format that can be played without an additional viewer.
  - The minimum requirements for normal operation of SEC Backup Viewer are as follows: CPU Quad Core 2.5GHz or higher, DRAM 3GB or more.

### Backup Criteria

Select a backup time, storage device and camera to backup.

- **Time Range**: Set the time range for the recording data to backup.
- **Backup Destination**: Select one from the External USB HDD, DVD/CD, USB Flash Memory and specify the sub path.
  - You can reuse a DVD-RW disk using the "Erase this CD-RW" menu in the Windows Explorer.
  - The DVD+RW disk can not be reused.
- **Camera**: Select multiple cameras to backup.



2012/04/17 TUE
16:03:03

Backup Format
● REC1 ○ SEC

Time Range
Start Time 2012-04-17 00:00:00
End Time 2012-04-17 00:00:00

Backup Destination
Media External USB HDD
External USB HDD
DVD/CD
USB Flash Memory
Path

Camera

| ☐ Select | Camera Name |
|---|---|
| ☐ | 192.168.0.128:4520-1CH-01 |
| ☐ | 192.168.0.91:4520-1CH-01 |
| ☐ | 192.168.0.162:4520-1CH-01 |
| ☐ | Deactivated |
| ☐ | Deactivated |
| ☐ | Deactivated |
| ☐ | Deactivated |
| ☐ | Deactivated |
| ☐ | Deactivated |
| ☐ | Deactivated |
| ☐ | Deactivated |
| ☐ | Deactivated |

Estimated Backup Size
The backup size is 0.00 MB.

- You can use only those drives that can be recognized by the operating system.
- For the Windows 7 user, select "**CD/DVD Drive**" in the Backup Destination pane to display the disk burning popup. If you select "**Disk Setup Option**" from the disc burning popup, CD/DVD backup will not operate properly. From the disk burning popup, press the "**Cancel**" button.

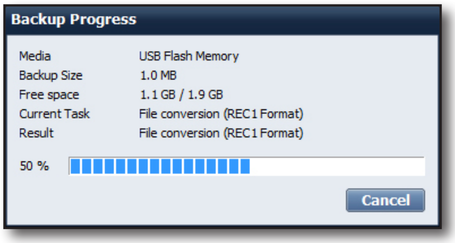
## To calculate the size of backup data

You can check the original size of backup data that you selected in the above step.
Select data to backup and click [**Calculate**] in the bottom right corner.

- The actual size of the backup data will be slightly larger than the original as additional information is included.
- If there are multiple recording sections in the backup time period, select one of them to estimate backup data size.

## Backup Progress

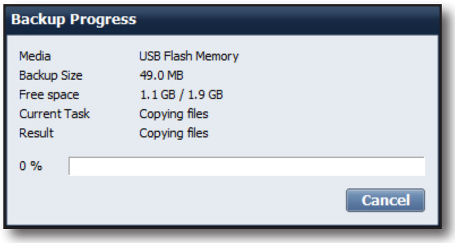
1. Select a file to backup.
2. Click [**Start Backup**].
   Backup will start, and you will see the Backup Progress window.
3. If you want to cancel the backup, click [**Cancel**] in the Backup Progress window.
   - In the Backup Progress window, you can also check the following information:
     - Média
     - Backup Size
     - Free space
     - Current Task
     - Result
     - Backup progress
   - If there are multiple recording sections in the backup time period, select one of them to backup.



Backup Progress

Media USB Flash Memory
Backup Size 1.0 MB
Free space 1.1 GB / 1.9 GB
Current Task File conversion (REC1 Format)
Result File conversion (REC1 Format)

50 %



Backup Progress

Media USB Flash Memory
Backup Size 49.0 MB
Free space 1.1 GB / 1.9 GB
Current Task Copying files
Result Copying files

0 %

# Service Manager

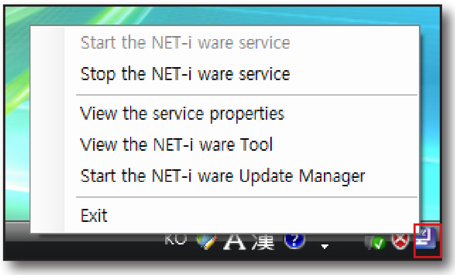
When the program is installed on the PC, the Service Manager icon will be displayed in the right tray on desktop.

## USING SERVICE MANAGER

The Manager will reside in the Windows tray that manages the NET-i ware service.

Select the icon and right-click it.

The Service menu will appear.


Start the NET-i ware service
Stop the NET-i ware service
View the service properties
View the NET-i ware Tool
Start the NET-i ware Update Manager
Exit

### Service Management

You can start or stop the service.

- Start the NET-i ware service: Starts the NET-i ware service.
- Stop the NET-i ware service: Exits the NET-i ware service.

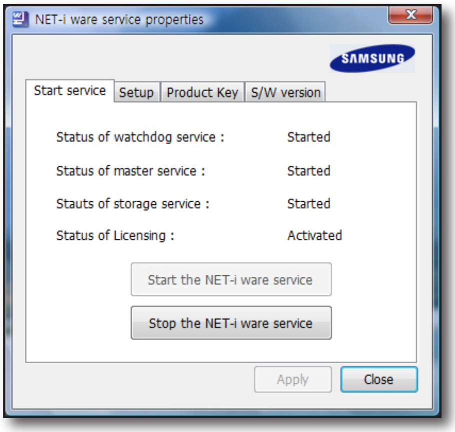
### ❖ NET-i ware Tool Program

You can run the NET-i ware Tool program.

### ❖ Viewing Service Information

Click [**View the Service Properties**] to display the NET-i ware Service Information window.

- Start Service Tab: You can check the status of the service.
- Setup Tab: You can set to automatically run the NET-i ware service when the system starts.
- Product Key Tab: Shows the installed product's product key.
- S/W Version Tab: You can check the current version of the software installed on the PC.


NET-i ware service properties
SAMSUNG
Start service
Setup
Product Key
S/W version
Start the NET-i ware service
Stop the NET-i ware service
Apply
Close

Status of watchdog service : Started

Status of master service : Started

Stauts of storage service : Started

Status of Licensing : Activated

# NET-i ware Update

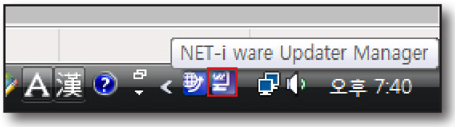
## INSTALLATION

The updater file will be installed together when you run the installer file of NET-i ware.

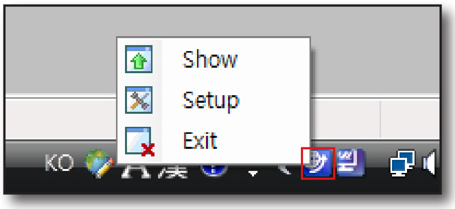
### Run

Click Execute Updater in the System Setup page of the NET-i ware Tool, or click Start Updater in the Service Manager to launch the NET-i ware Updater.
If the program starts normally, you will see the tray icon of the "**NET-i ware Updater Manager**" program in the task bar.

1. Place the cursor over the icon.
   You will see a tool tip as shown.



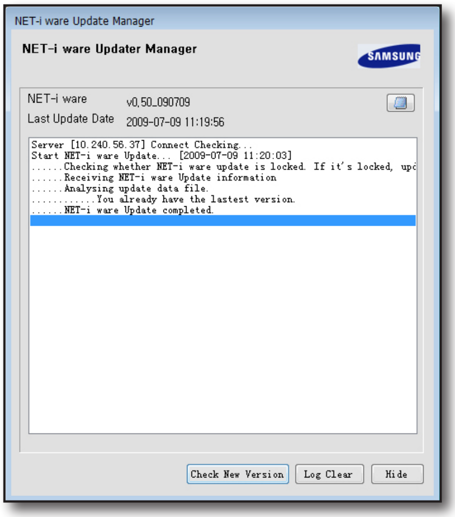
2. Right-click the tray icon.
   You will see a context menu as show.



### ❖ To update with the latest version

You can connect to the server and update the program with the latest version, regardless of the autocheck function.

1. Right-click the [**NET-i ware Updater Manager**] tray icon.
2. In the context menu that pops up, select the [**Show**] item.
   You will see the NET-i ware Updater Manager window.
3. In the "**NET-i ware Updater Manager**" window, click [**Check New Version**].
   ① In this window, you can check the current version and installation date.
   ② Select the [ ] button to check the release note of the current version.
   ③ You can check the communication log.
   You can use the log to check the cause of failure.
   ④ If you select the [**Check New Version**] button, you can check if a later version than the current is released on the server.
   ⑤ Click [**Log Clear**] to delete a log or logs.
   ⑥ Click [**Hide**] to disappear the menu window.



NET-i ware v0.50_090709
Last Update Date 2009-07-09 11:19:56

```
Server [10.240.56.37] Connect Checking...
Start NET-i ware Update... [2009-07-09 11:20:03]
......Checking whether NET-i ware update is locked. If it's locked, upd
......Receiving NET-i ware Update information
......Analysing update data file.
............You already have the lastest version.
......NET-i ware Update completed.
```

# AUTO UPDATE SETTING

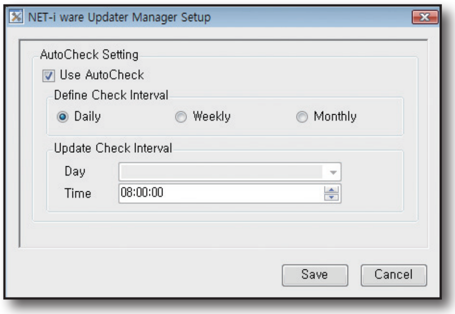
You can set the check update cycle to check any update automatically.

1. Click the [**NET-i ware Updater Manager**] tray icon.
2. In the context menu that pops up, select the [**Setup**] item.
3. Change the settings in the Setup window, and click [**Save**].

## Using AutoCheck

**You can set to check any update every day.**

1. Click Daily.
2. Select a time to perform the auto check.
   Ex) The right figure shows the auto check performs 08:00:00 AM every morning.



NET-i ware Updater Manager Setup

AutoCheck Setting

☑ Use AutoCheck

Define Check Interval

● Daily ○ Weekly ○ Monthly

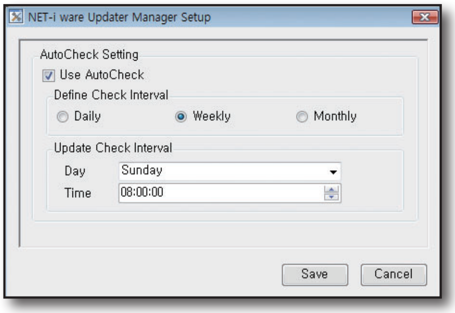
Update Check Interval

Day

Time 08:00:00

**You can set to check any update every week.**

1. Click Weekly.
2. Select a day of the week to perform the auto check.
3. Select a time to perform the auto check.
   Ex) The right figure shows the auto check performs 08:00:00 AM every Sunday morning.



NET-i ware Updater Manager Setup

AutoCheck Setting

☑ Use AutoCheck

Define Check Interval

○ Daily ● Weekly ○ Monthly

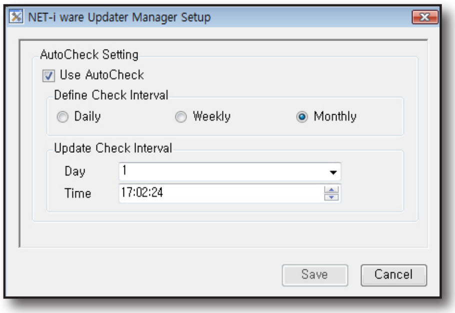
Update Check Interval

Day Sunday

Time 08:00:00

**You can set to check any update every month.**

1. Click Monthly.
2. Select a date to perform the auto check.
3. Select a time to perform the auto check.
   Ex) The right figure shows the auto check performs 17:02:24 PM every first day of the month.



NET-i ware Updater Manager Setup

AutoCheck Setting

☑ Use AutoCheck

Define Check Interval

○ Daily ○ Weekly ● Monthly

Update Check Interval

Day 1

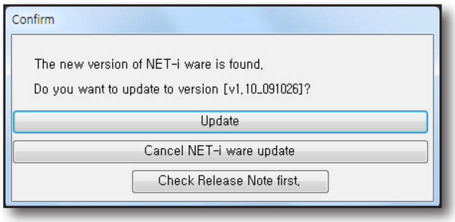
Time 17:02:24

# NET-i ware Update

## AUTO UPDATE SCENARIO

### Notice of the Latest Version

If there exists the latest version on the server, you will see a message as shown.
You can check the release note, and select to proceed with or cancel the update.

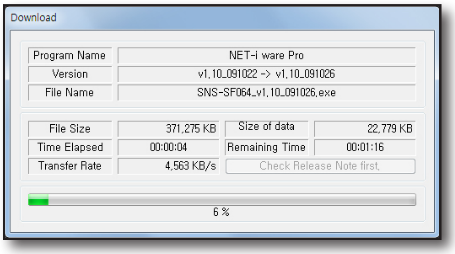

Confirm

The new version of NET-i ware is found.

Do you want to update to version [v1.10_091026]?

### Download

Click [**Update**] to download the installation files.

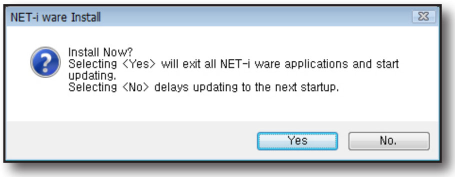

Download

| | | | |
|---|---|---|---|
| Program Name | NET-i ware Pro | | |
| Version | v1.10_091022 -> v1.10_091026 | | |
| File Name | SNS-SF064_v1.10_091026.exe | | |
| File Size | 371,275 KB | Size of data | 22,779 KB |
| Time Elapsed | 00:00:04 | Remaining Time | 00:01:16 |
| Transfer Rate | 4,563 KB/s | Check Release Note first. | |

6 %

### Checking Installation

When the download process is completed, you are prompted to install the update files now.
If you select [**No**], you will see the "**NET-i ware Install**" popup as shown where you can choose to install next time the program starts; this message will appear only if there is the latest version downloaded on the PC.
If you select [**No**] in the "**NET-i ware Install**" window and run the program, [**NET-i ware Updater Manager**] will check for any new version in the server and, if any, discard the existing update and try to download the newer version.


NET-i ware Install

Install Now?
Selecting <Yes> will exit all NET-i ware applications and start updating.
Selecting <No> delays updating to the next startup.

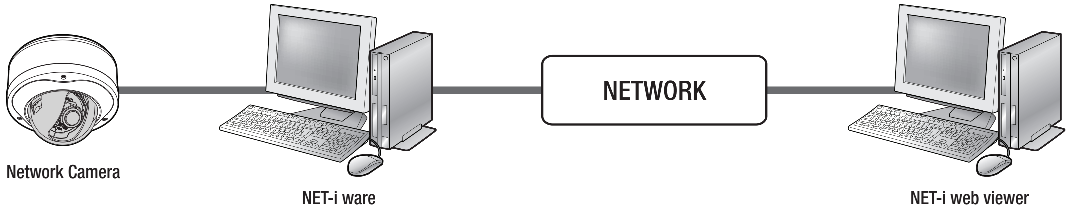
### Installation

If you select [**Yes**], all NET-i ware applications will exit and the Manager will proceed with the installation.

# NET-i Web Viewer

## WHAT IS THE WEB VIEWER?

It is a remote viewer that allows you to remotely connect to NET-i ware and to perform the real-time monitoring, PTZ (if specified) control, and search.

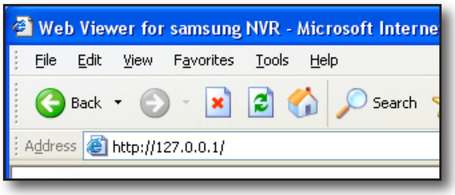

NETWORK
Network Camera
NET-i ware
NET-i web viewer

- NET-i ware web viewer supports most major web browsers.
  - Internet Explorer, Safari, Chrome, Firefox
  - Using the Chrome browser on MAC OS X 10.7 Lion is not supported.

## GETTING STARTED WITH THE WEB VIEWER

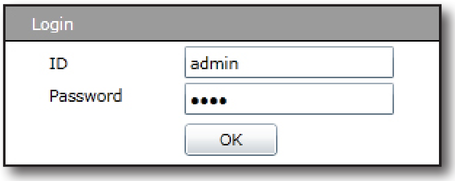
**1.** Open the web browser and enter the IP address of the PC that is running NET-i ware in the address bar.

- If Silverlight is not installed or a lower version of Silverlight is installed, you must install Silverlight or upgrade the current version before proceeding. (Page 46)


Web Viewer for samsung NVR - Microsoft Interne
File Edit View Favorites Tools Help
Back
Search

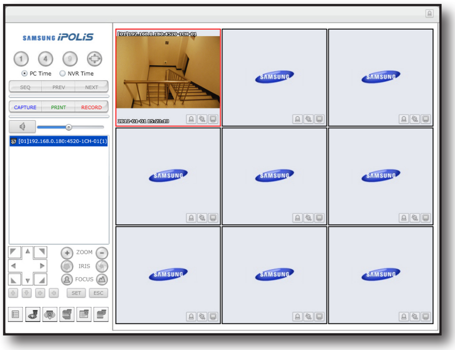
Address http://127.0.0.1/

**2.** Provide the user ID and password.
- Default ID: admin
- Password: 4321



ID admin
Password ••••

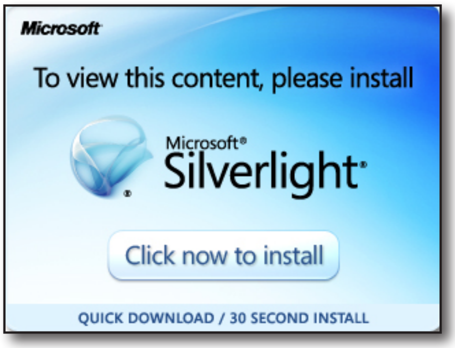
**3.** Click [**OK**].
You will see the main screen of the live viewer.


SAMSUNG iPOLiS
SAMSUNG

## INSTALLING SILVERLIGHT

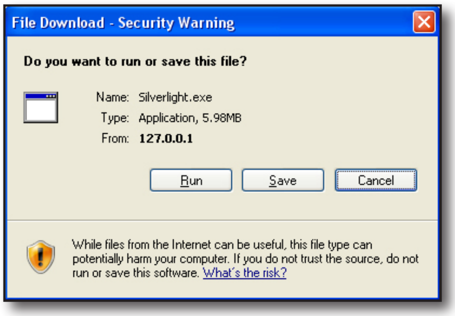
If your PC has not installed Silverlight or has just installed an older version, you will be redirected to the Silverlight installation page automatically when accessing the web viewer.

1. Click <**Click now to install**>.


Microsoft
Microsoft® Silverlight®
Click now to install
QUICK DOWNLOAD / 30 SECOND INSTALL

To view this content, please install

2. When the file download dialog pops up, click <**Run**>.

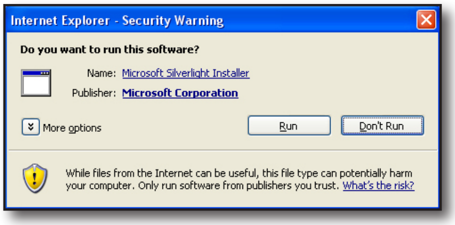

File Download - Security Warning
Run
Save
Cancel
What's the risk?

Do you want to run or save this file?

Name: Silverlight.exe
Type: Application, 5.98MB
From: 127.0.0.1

While files from the Internet can be useful, this file type can potentially harm your computer. If you do not trust the source, do not run or save this software. What's the risk?

3. When the download is completed, click <**Run**>.

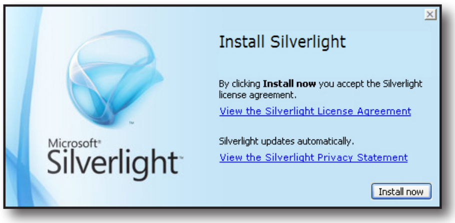

Internet Explorer - Security Warning
More options
Run
Don't Run
What's the risk?

Do you want to run this software?

Name: Microsoft Silverlight Installer
Publisher: Microsoft Corporation

While files from the Internet can be useful, this file type can potentially harm your computer. Only run software from publishers you trust. What's the risk?

4. The Silverlight installation page will be displayed.
   Click <**Install Now**> to proceed with the installation.

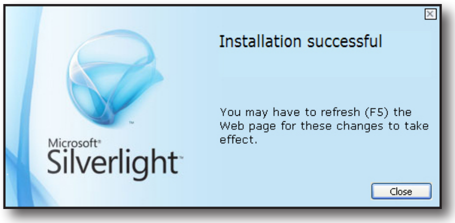

Microsoft® Silverlight™
Install now

Install Silverlight

By clicking **Install now** you accept the Silverlight license agreement.
View the Silverlight License Agreement

Silverlight updates automatically.
View the Silverlight Privacy Statement

5. When done, click <**Close**>.
6. Close and restart the web browser, and try to access the Web Viewer. When Silverlight is installed properly, you will see the live screen displayed.


Microsoft® Silverlight™
Close

Installation successful

You may have to refresh (F5) the Web page for these changes to take effect.

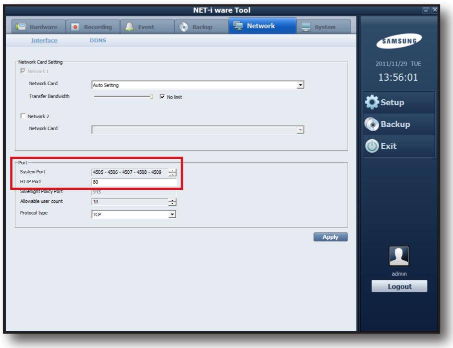
- For a proper installation, set the Block Popup setting as follows:
  Ex) **Internet Explorer → Tools → Block Popup → Turn off Pop-up Blocker (B)**

## CHECKING THE CONNECTION STATUS OF WEB VIEWER

If you fails to connect to the web viewer, check the followings:

1. Ensure that the system port is set to between 4505 and 4534.
   You can check and change the port number in <**Network**> - <**Remote Connect**> - <**System Port**> of NET-i ware.
2. Ensure that the HTTP port specified in NET-i ware is not used simultaneously in any other program.
   You can change the settings in <**Network**> - <**Remote Connect**> - <**HTTP Port**> of NET-i ware.

   - If the port number is other than 80, you should add the port number next to the IP address in the address bar of the web viewer.
   - If the web viewer is disconnected due to a changed system port, reload the web browser and log in again.

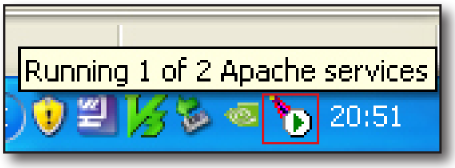


2011/11/29 TUE
13:56:01

Network Card Setting
☑ Network 1
Network Card: Auto Setting
Transfer Bandwidth: ☑ No limit
☐ Network 2
Network Card:

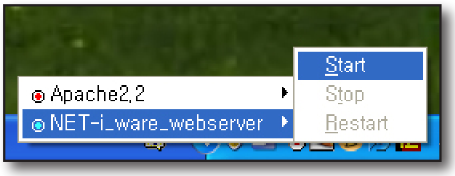
Port
System Port: 4505 - 4506 - 4507 - 4508 - 4509
HTTP Port: 80
Silverlight Policy Port: 943
Allowable user count: 10
Protocol type: TCP

3. To check if the web server of NET-i ware operates properly, launch the Monitor Apache Server.
   Run the program by clicking the tray icon or by selecting the program menu to check if "NET-i_ware_webserver" is currently running.



Running 1 of 2 Apache services

   If it's not running (green icon), move to the Apache services item and click <**Start**> of "NET-i_ware-webserver".
   To ensure a proper operation of the service, you should not use the same port as mentioned in step 2 above.

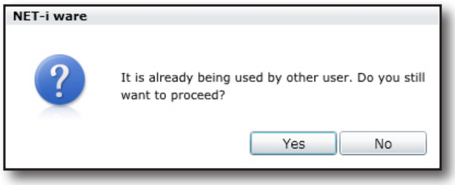


4. For Windows Server 2003/2008, the Web Viewer may have a problem making connection due to the enhanced security of the Internet Explorer. If you encounter blocked contents of the web page that you accessed with the Web Viewer, check the followings:
   - **For Windows Server 2003**
     Move to [Control Panel – Add/Remove Programs – Add/Remove Windows Components], and uncheck [Internet Explorer Enhanced Security Configuration].
   - **For Windows Server 2008**
     Move to [Control Panel – Management Tools – Server Manager – Server summary – Security Information – IE ESC Configuration] and change the [Internet Explorer Enhanced Security Configuration] to [Do not Use].

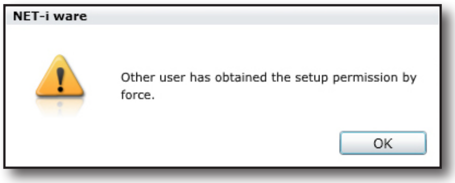
**5.** Only one user can access the web viewer setup page or NET-i ware tool at a time.
If a different user has already accessed the setup page, you will be prompted to access the page by force.

- If selecting <**No**>, you cannot access the page.
- If selecting <**Yes**> will disconnect the access by the current user and enable you to access the page.

If this is the case, the current user cannot configure any setting in the Setup page and will be notified of the forcible access by a different user.


NET-i ware

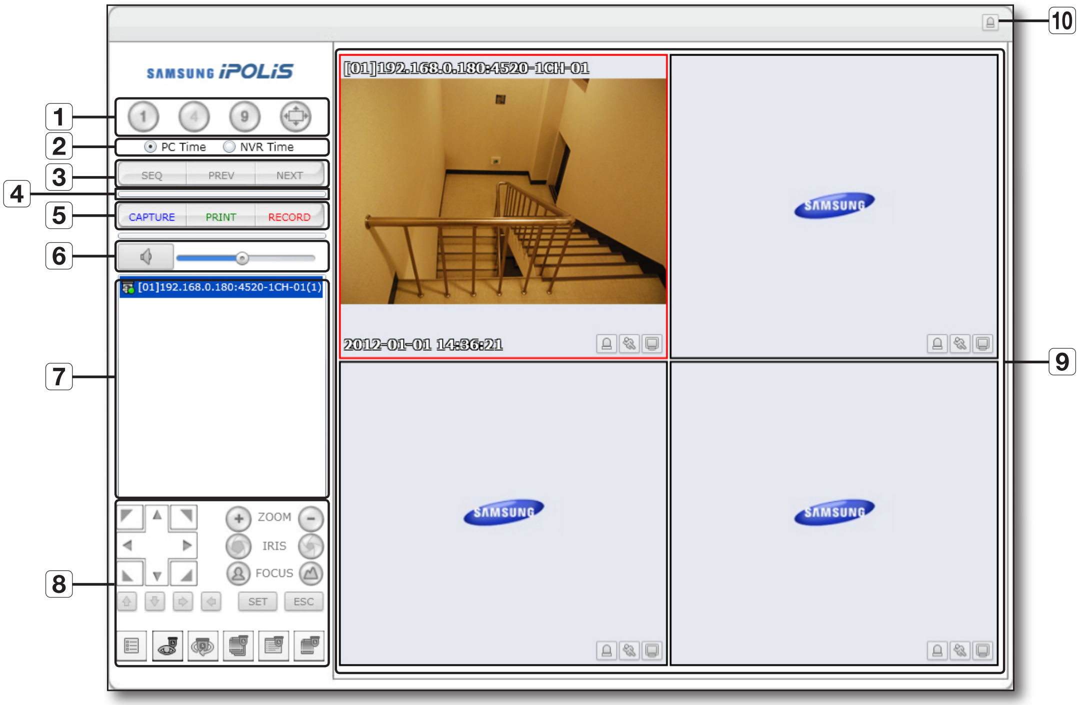
It is already being used by other user. Do you still want to proceed?


NET-i ware

Other user has obtained the setup permission by force.

# LIVE VIEWER

## Live Viewer At a Glance


SAMSUNG iPOLiS
1
4
9
PC Time
NVR Time
SEQ
PREV
NEXT
CAPTURE
PRINT
RECORD
[01]192.168.0.180:4520-1CH-01(1)
ZOOM
IRIS
FOCUS
SET
ESC
[01]192.168.0.180:4520-1CH-01
2012-01-01 14:36:21
SAMSUNG
1
2
3
4
5
6
7
8
9
10

| Item | | Description |
|---|---|---|
| 1 | **Split Mode** | Switch to a split mode or full screen. |
| 2 | **Time Display Options** | Based on OSD time information of Live Viewer, select one from <**PC Time**> (on which Web Viewer is running) and <**NVR Time**> (on which NET-i ware is running). |
| 3 | **Channel Selection** | Switch to Auto Sequence mode, or to the previous or next channel. |
| 4 | **Auto Sequence Status** | Display the sequence status of the channel being displayed. |
| 5 | | Perform the screen capture, printing or recording as necessary. |
| 6 | **Audio** | Adjust the audio volume. |
| 7 | **Camera Name** | Display the name of the connected camera. |
| 8 | **PTZ** | Control the Pan/Tilt/Zoom operation and adjust the iris or focus as necessary. |
| 9 | **Video Screen** | Display the channel screen connected to NET-i ware. |
| 10 | **Event Display Off** | Turn off the display of an event, if occurred, appearing in the top right corner. |

- The IP address and the model name of NET-I ware currently connected will be displayed on the top right corner of the Live viewer.
- If selecting any of <**LIVE**>, <**SEARCH**>, <**SETUP**>, and <**ABOUT**> on the top right web viewer, you will move to each corresponding menu screen.

## Changing the split mode

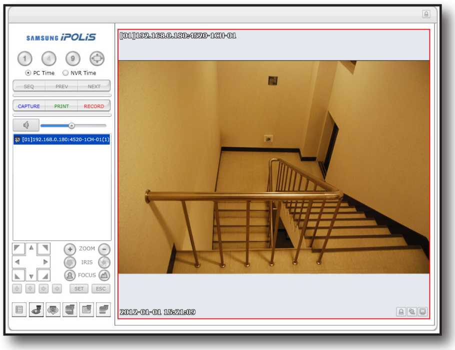
Click the Split Mode button to switch to the selected split mode.

### To switch to Single mode

Click <①>.

The video screen will switch to single mode for the selected camera.

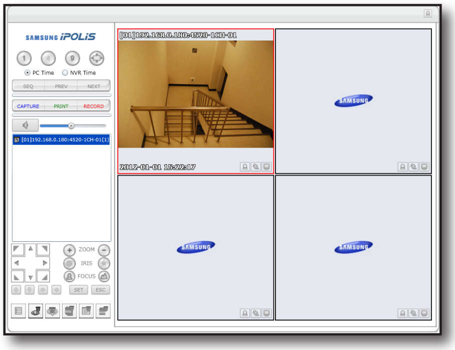
- You can double-click the tile of a desired camera to switch to Single mode.


SAMSUNG iPOLiS
PC Time
NVR Time
SEQ
PREV
NEXT
CAPTURE
PRINT
RECORD
[01]192.168.0.180:4520-1CH-01(1)
ZOOM
IRIS
FOCUS
SET
ESC
[01]192.168.0.180:4520-1CH-01

### To switch to 4-split mode

Click <④>.

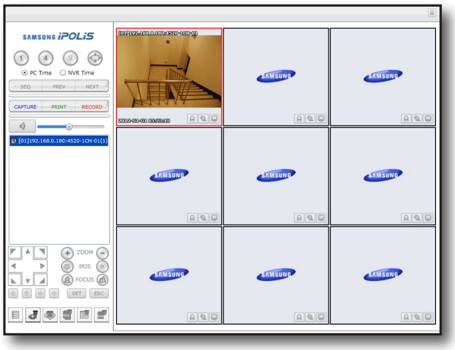
The video screen will switch to 4-split mode with the channel of the selected camera moving up to the first tile.


SAMSUNG iPOLiS
PC Time
NVR Time
SEQ
PREV
NEXT
CAPTURE
PRINT
RECORD
[01]192.168.0.180:4520-1CH-01(1)
ZOOM
IRIS
FOCUS
SET
ESC
[01]192.168.0.180:4520-1CH-01
SAMSUNG
SAMSUNG
SAMSUNG

### To switch to 9-split mode

Click <⑨>.

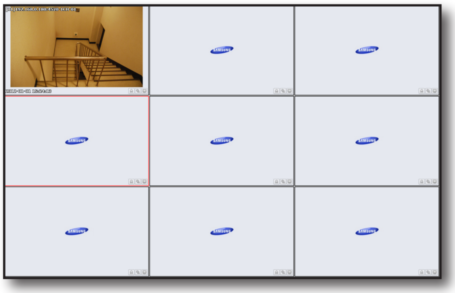
The video screen will switch to 9-split mode with the channel of the selected camera moving up to the first tile.


SAMSUNG iPOLiS
PC Time
NVR Time
SEQ
PREV
NEXT
CAPTURE
PRINT
RECORD
[01]192.168.0.180:4520-1CH-01(1)
ZOOM
IRIS
FOCUS
SET
ESC
SAMSUNG

## To switch to full screen

Click < ✥ >.

Switch the current split mode to full screen.
To exit the full screen, press [**ESC**] on your keyboard.



# Using the Live menus

You can perform Auto Sequence, or move to the previous or next channel.

## To perform Auto Sequence

Click < SEQ >.
This will switch the screen of the connected camera in sequence.

SEQ
PREV
NEXT

- The number of cameras should be greater than the channel number of the split screen where you want to perform auto sequence.
- You can specify the sequence interval in <**SETUP**> - <**System**> - <**Sequence Time**>. (Page 68)

## To move to the previous/next channel

Click < PREV > or < NEXT >.
Move to the previous or next channel of the connected device in the current split mode.

## Screen capture

1. Click < CAPTURE >.
   You will see the window where you can specify the saving path of the captured image.

CAPTURE
PRINT
RECORD

2. Specify the path and provide the file name. Then, click <**Save(S)**>.
   This will save the video of the selected camera as .bmp or .jpg format.

## Printout

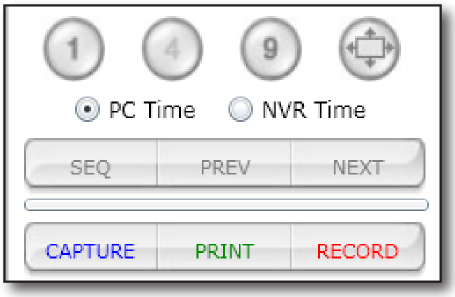
Click < PRINT >.

This will print out the video image of the selected camera using the printer connected to the PC that runs the web viewer.

## Record

1. Click < RECORD >.
   You will see the window where you can specify the saving path of your recording.
2. Specify the path and provide the file name. Then, click <**Save(S)**>.
   This will save the video of the selected camera as .avi format.
   - The max recording time is 10 minutes.
     The recorded video can be played only with DivX codec.
   - For playing an .AVI video clip, you can use the free video player to play the video. (ex:GOM Player, KM Player, etc)
     However, the video may not played properly, depending on the CODEC compliance of the player.

- If the web viewer is in recording mode, the split-screen selection button and other buttons such as <**SEQ**>, <**PREV**>, and <**NEXT**> will be disabled.

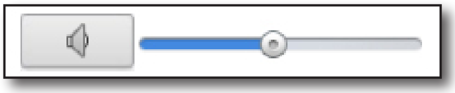


## To adjust the volume

Select a camera and hold the volume bar while dragging it to a desired point.

Click < 🔈 > to mute the sound.

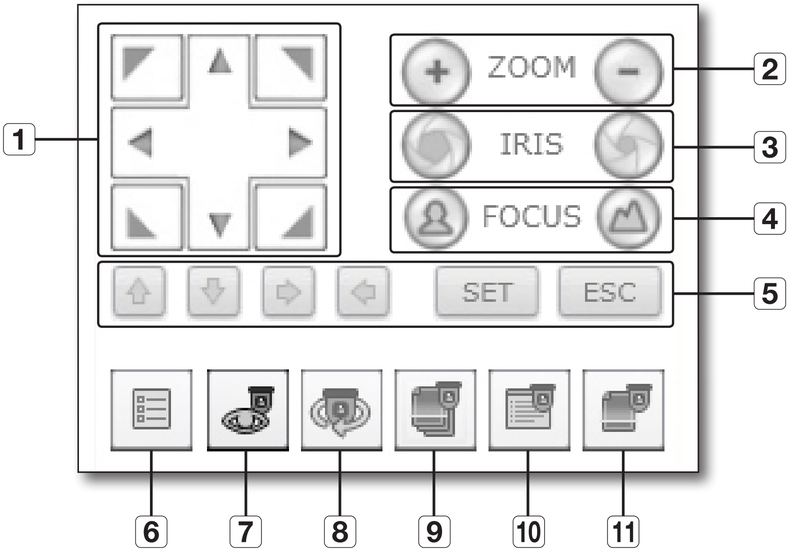
Click < 🔇 > to release the mute.



## PTZ control

If the selected camera supports the PTZ operation, the buttons available will be active and you can press an active button to activate a desired operation.

### Using the PTZ buttons



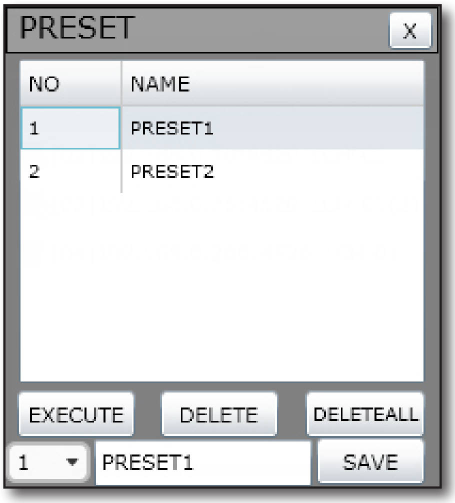
| | Item | Description |
|---|---|---|
| 1 | **Direction** | Adjust the camera orientation. |
| 2 | **ZOOM** | Adjust the zoom factor of the camera. |
| 3 | **IRIS** | Adjust the iris of the camera. |
| 4 | **FOCUS** | Adjust the focus of the video from the camera. |
| 5 | **SET, ESC** | Change the selection in the menu screen and confirm or cancel your selection. |
| 6 | **Menu** | Open the camera menus. |
| 7 | **Preset** | Once you have specified preset positions of the camera, you can select a desired preset to move to the preset position. |
| 8 | **Swing / Autopan** | Make the camera travel between specified start and end points. |
| 9 | **Tour** | Make the camera follow the specified route combining multiple groups. |
| 10 | **Trace / Pattern** | Make the camera follow the specified route. |
| 11 | **Group / Scan** | Make the camera follow the selected route in combination of Preset, Pattern and Autopan. |

# NET-i Web Viewer

## To define a preset

1. Click < >.
2. Click < 1 ▾ > to select a preset number.
3. Provide the preset name.
4. Use the direction buttons to adjust the camera angle to a desired direction.
5. Click < SAVE >.

- The camera supports adding and displaying up to 20 presets regardless of the preset number. However, both SSNP-series camera and SPE-100/400/1600 supports adding and displaying up to preset #127.



| NO | NAME |
|---|---|
| 1 | PRESET1 |
| 2 | PRESET2 |

PRESET
X
EXECUTE
DELETE
DELETEALL
1 ▾
PRESET1
SAVE

## To perform the preset

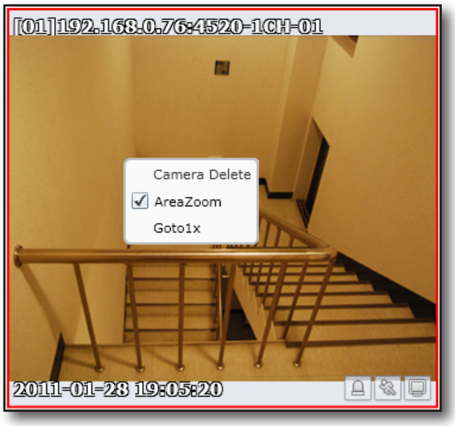
1. From the preset list, select a registered preset.
2. Click < EXECUTE >.
   The camera lens will move to a specified position.

## Swing/Autopan, Trace/Pattern, Group/Scan, Tour

1. Click the button corresponding to a desired PTZ operation.
   The selected operation will be performed.
2. To stop the operation, click the button again.
3. To change the route or settings, make your change in the camera's Setup menu.
   - You can also open the camera Setup page from <**SETUP**> - <**Device Setup Page**> of the NET-i web viewer.

## To perform the AreaZoom

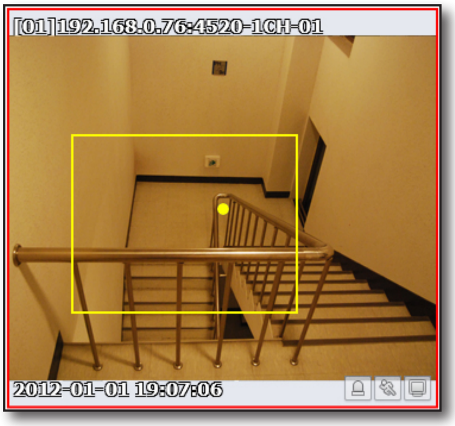
1. Move the cursor to a desired camera tile and right-click it.
2. From the context menu that appears, select <**AreaZoom**>.
   You will see a yellow spot on the screen.



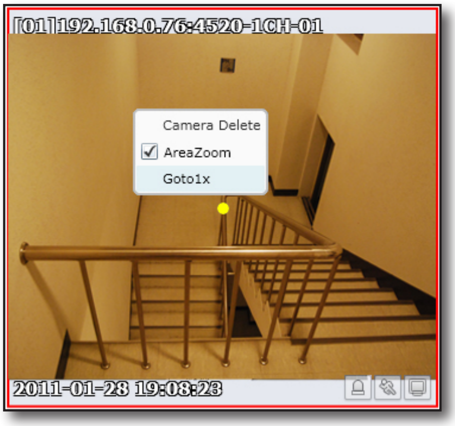
[01]192.168.0.76:4520-1CH-01
Camera Delete
☑ AreaZoom
Goto1x
2011-01-28 19:05:20

**3.** Drag the yellow spot and drop it at a desired position.
Only as much area as the selected box will be zoomed.

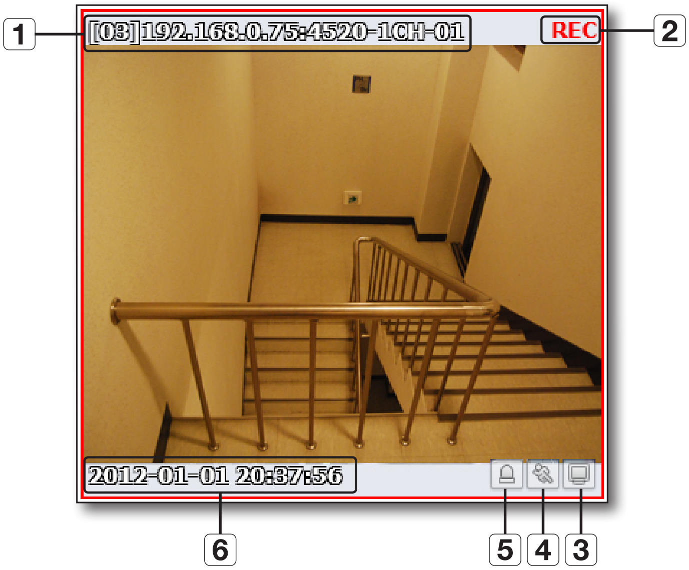
- The camera will perform the pan or tilt so that the box will be positioned center.
- The zoom will be performed only to the max zoom factor supported by the camera.


[01]192.168.0.76:4520-1CH-01
2012-01-01 19:07:06

**4.** To restore the previous size, right-click the screen and select <**Goto1x**> in the context menu.


[01]192.168.0.76:4520-1CH-01
Camera Delete
☑ AreaZoom
Goto1x
2011-01-28 19:08:23

## VIDEO SCREEN AT A GLANCE

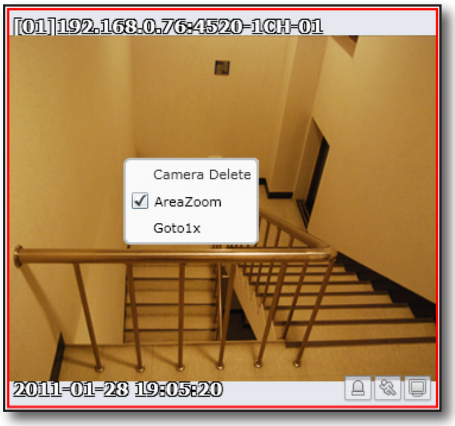


| | Item | Description |
|---|---|---|
| 1 | **Camera Name** | Display the camera name specified in NET-i ware. |
| 2 | **Record** | Display the status of recording made on the PC that is running the web viewer. |
| 3 | **Intelligent Video Analysis** | If Intelligent Video Analysis is activated, the button will be displayed in a different color.<br>Click the active button again to release the display of intelligent video analysis. |
| 4 | **Motion** | If a motion is detected by the camera, the button will be displayed in a different color.<br>Click the active button to release the display of the motion. |
| 5 | **Alarm** | If an event occurs in the camera, the button will be displayed in a different color.<br>Click the active button to release the display of the event. |
| 6 | **Time & Date** | Display the time information of the video. |

## To perform the tile context menu

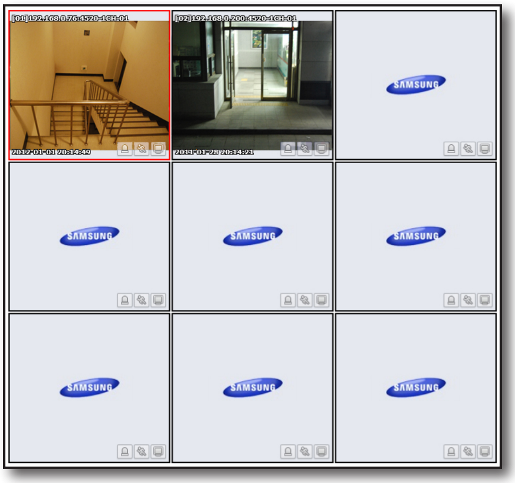
Move the cursor to a desired context menu of camera tile and right-click it.
You will see the available context menu items of the tile.

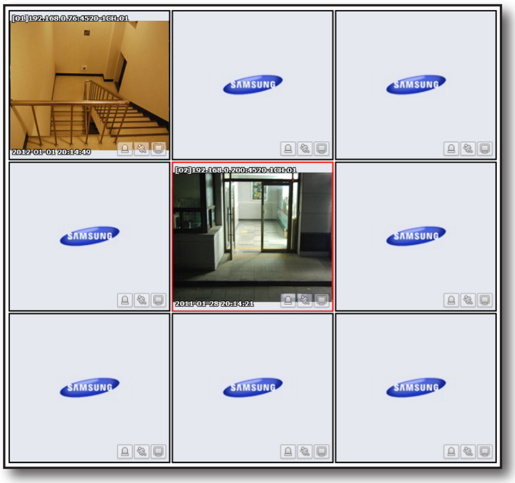
- Camera Delete : Remove the camera from the selected tile.
- AreaZoom : Perform the AreaZoom.
  - For more information, refer to "**To perform the AreaZoom**". (Page 54)
- Goto1x : Return to the previous screen before the AreaZoom is performed.


[01]192.168.0.76:4520-1CH-01
Camera Delete
☑ AreaZoom
Goto1x
2011-01-28 19:05:20

## To move the video screen

1. Select a desired one from the tiles displaying videos.
2. Drag and drop it to a desired tile position.
   The other tiles will move up by one cell.
   Ex: if you move the second tile to the fifth, the third tile will move up to the second cell.

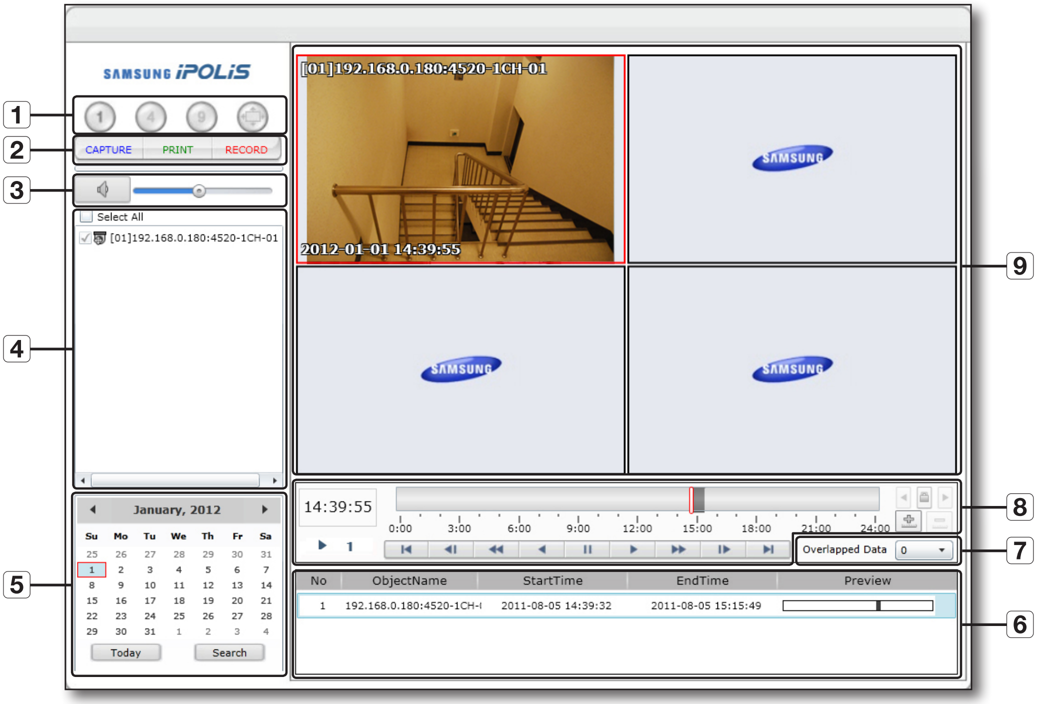

[01]192.168.0.76:4520-1CH-01
2012-01-01 20:14:49
[02]192.168.0.200:4520-1CH-01
2011-01-28 20:14:21
SAMSUNG


[01]192.168.0.76:4520-1CH-01
2012-01-01 20:14:49
[02]192.168.0.200:4520-1CH-01
2011-01-28 20:14:21
SAMSUNG

## SEARCH VIEWER

You can search for and play recording data in the PC that is running NET-i ware.

### Search Viewer At a Glance


1
2
3
4
5
6
7
8
9
SAMSUNG iPOLiS
CAPTURE
PRINT
RECORD
Select All
[01]192.168.0.180:4520-1CH-01
January, 2012
Su Mo Tu We Th Fr Sa
Today
Search
[01]192.168.0.180:4520-1CH-01
2012-01-01 14:39:55
SAMSUNG
14:39:55
0:00 3:00 6:00 9:00 12:00 15:00 18:00 21:00 24:00
1
Overlapped Data
0

| No | ObjectName | StartTime | EndTime | Preview |
|---|---|---|---|---|
| 1 | 192.168.0.180:4520-1CH-( | 2011-08-05 14:39:32 | 2011-08-05 15:15:49 | |

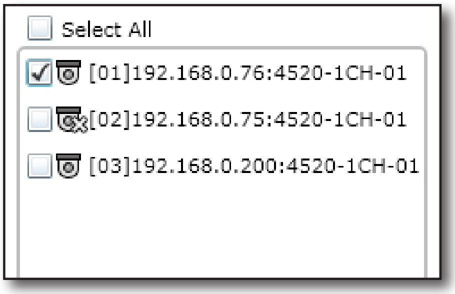
| Item | | Description |
|---|---|---|
| 1 | **Split Mode** | Select a split mode or full screen.<br>▪ For more information, refer to "**Changing the spit mode**". (Page 50) |
| 2 | | Perform the screen capture, printing or recording as necessary.<br>▪ For more information, refer to "**Using the Live menus**". (Page 51) |
| 3 | **Audio** | You can adjust the volume of the audio data of your search, if any. |
| 4 | **Camera List** | Display a list of connected cameras where you can select one to search. |
| 5 | **Calendar** | Specify a date to search or display the search result. |

| | Item | Description |
|---|---|---|
| 6 | **Result Pane** | Display the search result. |
| 7 | **Overlapped Data** | It shows whether overlapping recordings exist for the same time line. If exist, user can select one to play. |
| 8 | **Timeline / Play Bar** | You can play the recording data, zoom in/out the video screen, and fix /release the timeline bar.<br>Adjust the play speed of the current video.<br>■ For more information, refer to "**Play**". (Page 60) |
| 9 | **Play Screen** | If you select a search result, it will be displayed in the video screen. |

- The IP address and the model name of NET-i ware currently connected will be displayed on the top left corner of the search viewer.

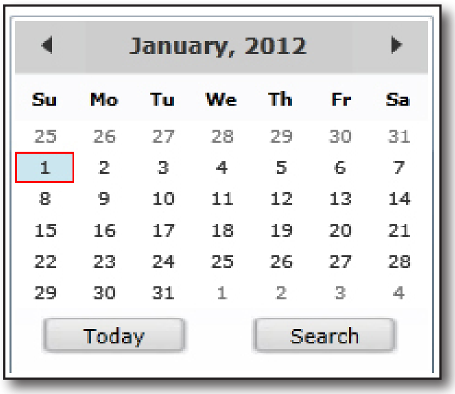
## Search

1. From the camera display pane, check the checkbox of the camera to search.
   To select all cameras, check the <**Select All**> checkbox.



☐ Select All
☑ [01]192.168.0.76:4520-1CH-01
☐ [02]192.168.0.75:4520-1CH-01
☐ [03]192.168.0.200:4520-1CH-01

2. Select a month to search in the calendar.
   Click <**ToDay**> to move to the current month.
3. Click <**Search**>.

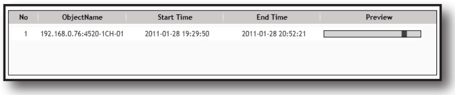


January, 2012

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| 25 | 26 | 27 | 28 | 29 | 30 | 31 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | 1 | 2 | 3 | 4 |

## Play

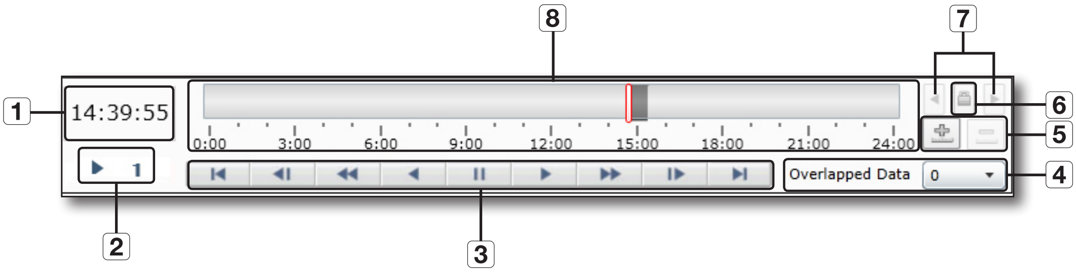
1. **1.** Click the date containing a search result.
   The details will be displayed in the result pane.
   - Preview : The recording type for the section containing search results will be displayed in a different color.
     - Yellowish Green: Continuous
     - Blue: Motion
     - Orange: Alarm
     - Pink: Video Loss
     - Purple: Intelligent Video Analysis
     - Black: Manual



| No | ObjectName | Start Time | End Time | Preview |
|---|---|---|---|---|
| 1 | 192.168.0.76:4520-1CH-01 | 2011-01-28 19:29:50 | 2011-01-28 20:52:21 | |

2. **2.** In the result pane, double-click a desired data item or drag and drop it over to a tile.
   The selected item will be displayed.

### To adjust the currently playing data



| Item | | | Description |
|---|---|---|---|
| 1 | **Time Information** | | Display the recording time of the currently playing data. |
| 2 | **Playback Status** | | Display the status of Play, Pause or Speed. |
| 3 | **Play Bar** | ⏮ | Move to the start point of recording in the timeline. |
| | | ◀❙ | Play reversely one frame by one. |
| | | ◀◀ | Play reversely at a max of x64 speed by increasing by x2. |
| | | ◀ | Play reversely. |

| Item | | | Description |
|---|---|---|---|
| 3 | **Play Bar** | ❚❚ | Stop playing temporarily. |
| | | ▶ | Play forward at normal speed. |
| | | ▶▶ | Play forward at a max of x64 speed by increasing by x2. |
| | | ❚▶ | Play forward one frame by one. |
| | | ▶❚ | Move to the end point of recording in the timeline. |
| 4 | **Overlapped Data** | | It shows whether overlapping recordings exist for the same time line. If exist, user can select one to play. |
| 5 | **Expand/Collapse the timeline bar** | | Enlarge or shrink the time display bar. |
| 6 | **Fix/Release the timeline** | | Fix or release the timeline bar.<br>- Timeline fixed: If the current position is out of the timeline range, the next timeline range will be shown accordingly. In the fixed state, you cannot move to the previous or next timeline range.<br>- Timeline released: Even if the current position is out of the timeline range, the next timeline range will not be shown accordingly so the playback range can be different from the visible range. Only in the state of released timeline, you can move to the previous or next timeline range by the hour. |
| 7 | **Move** | | You can expand the timeline and navigate through the timeline forward or backward. |
| 8 | **Timeline** | | The recording section (0 ~ 24 hr) of a specific date containing a search result will be displayed in a different color according to the recording reason. |

# NET-i Web Viewer

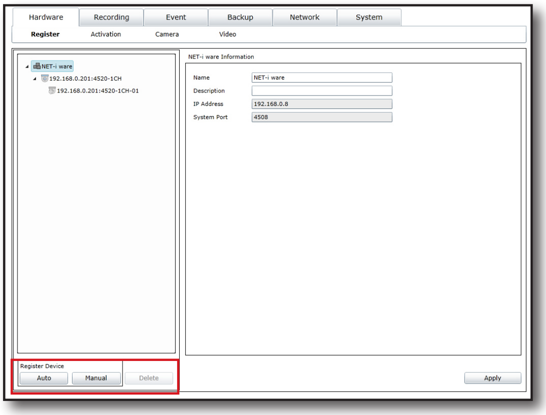
## SETUP VIEWER

### Hardware

For more information, refer to “**Hardware**”. (Page 12)

#### ❖ Register

You can add/edit/delete a desired device to/from NET-i ware.


Hardware
Recording
Event
Backup
Network
System
Register
Activation
Camera
Video
Register Device
Auto
Manual
Delete
Apply

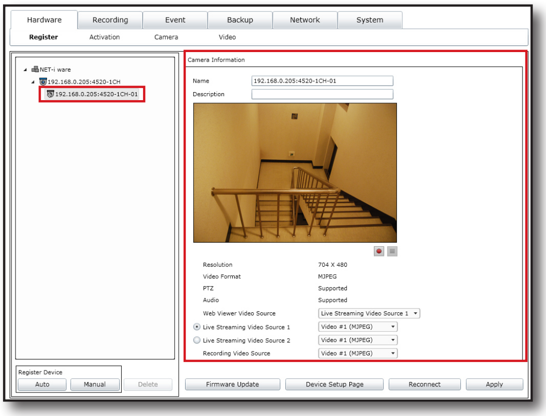
NET-i ware
192.168.0.201:4520-1CH
192.168.0.201:4520-1CH-01

NET-i ware Information

Name: NET-i ware
Description:
IP Address: 192.168.0.8
System Port: 4508

**Camera Information**

Once you select a video source for the web viewer, you can select a profile that will be monitored on the Live screen of the web viewer.


Hardware
Recording
Event
Backup
Network
System
Register
Activation
Camera
Video
Register Device
Auto
Manual
Delete
Firmware Update
Device Setup Page
Reconnect
Apply

NET-i ware
192.168.0.205:4520-1CH
192.168.0.205:4520-1CH-01

Camera Information

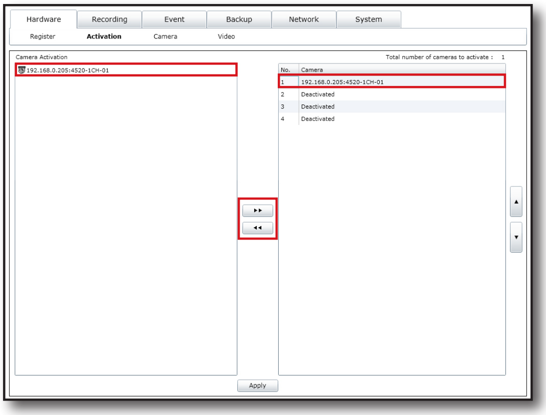
Name: 192.168.0.205:4520-1CH-01
Description:

Resolution: 704 X 480
Video Format: MJPEG
PTZ: Supported
Audio: Supported
Web Viewer Video Source: Live Streaming Video Source 1
● Live Streaming Video Source 1: Video #1 (MJPEG)
○ Live Streaming Video Source 2: Video #1 (MJPEG)
Recording Video Source: Video #1 (MJPEG)

#### ❖ Activation

To take advantage of the camera, you must activate the camera after registering it.

- In the web viewer, the cameras will be sorted by index. And Find Object and Sort options are provided.


Hardware
Recording
Event
Backup
Network
System
Register
Activation
Camera
Video
▸▸
◂◂
▲
▼
Apply

Camera Activation

192.168.0.205:4520-1CH-01

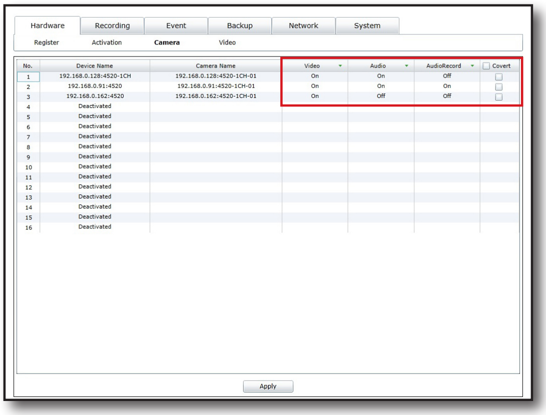
Total number of cameras to activate : 1

| No. | Camera |
|---|---|
| 1 | 192.168.0.205:4520-1CH-01 |
| 2 | Deactivated |
| 3 | Deactivated |
| 4 | Deactivated |

### ❖ Camera

Turns On/Off the camera’s Video, Audio, Audio Recording and Covert functions.

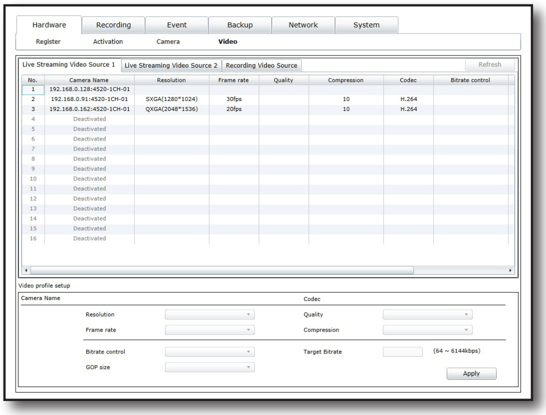
You can configure the settings so that only the video from the camera where <**Video**> source is turned <**On**> can be played on the live monitoring screen.


Hardware
Recording
Event
Backup
Network
System
Register
Activation
Camera
Video
Apply

| No. | Device Name | Camera Name | Video | Audio | AudioRecord | ☐ Covert |
|---|---|---|---|---|---|---|
| 1 | 192.168.0.128:4520-1CH | 192.168.0.128:4520-1CH-01 | On | On | Off | ☐ |
| 2 | 192.168.0.91:4520 | 192.168.0.91:4520-1CH-01 | On | On | On | ☐ |
| 3 | 192.168.0.162:4520 | 192.168.0.162:4520-1CH-01 | On | Off | Off | ☐ |
| 4 | Deactivated | | | | | |
| 5 | Deactivated | | | | | |
| 6 | Deactivated | | | | | |
| 7 | Deactivated | | | | | |
| 8 | Deactivated | | | | | |
| 9 | Deactivated | | | | | |
| 10 | Deactivated | | | | | |
| 11 | Deactivated | | | | | |
| 12 | Deactivated | | | | | |
| 13 | Deactivated | | | | | |
| 14 | Deactivated | | | | | |
| 15 | Deactivated | | | | | |
| 16 | Deactivated | | | | | |

### ❖ Video

You can set Live 1, 2 or set the recording properties for an activated camera.


Hardware
Recording
Event
Backup
Network
System
Register
Activation
Camera
Video
Live Streaming Video Source 1
Live Streaming Video Source 2
Recording Video Source
Refresh
Video profile setup
Camera Name
Codec
Resolution
Quality
Frame rate
Compression
Bitrate control
Target Bitrate
(64 ~ 6144kbps)
GOP size
Apply

| No. | Camera Name | Resolution | Frame rate | Quality | Compression | Codec | Bitrate control |
|---|---|---|---|---|---|---|---|
| 1 | 192.168.0.128:4520-1CH-01 | | | | | | |
| 2 | 192.168.0.91:4520-1CH-01 | SXGA(1280*1024) | 30fps | | 10 | H.264 | |
| 3 | 192.168.0.162:4520-1CH-01 | QXGA(2048*1536) | 20fps | | 10 | H.264 | |
| 4 | Deactivated | | | | | | |
| 5 | Deactivated | | | | | | |
| 6 | Deactivated | | | | | | |
| 7 | Deactivated | | | | | | |
| 8 | Deactivated | | | | | | |
| 9 | Deactivated | | | | | | |
| 10 | Deactivated | | | | | | |
| 11 | Deactivated | | | | | | |
| 12 | Deactivated | | | | | | |
| 13 | Deactivated | | | | | | |
| 14 | Deactivated | | | | | | |
| 15 | Deactivated | | | | | | |
| 16 | Deactivated | | | | | | |

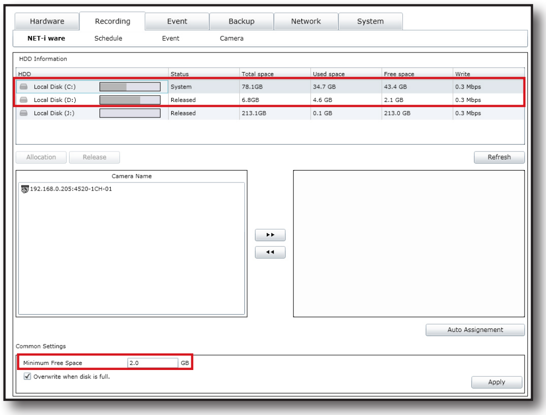
## Record

For more information, refer to “**Record Settings**”. (Page 20)

### ❖ NET-i ware

It will display information about the current local disk.

You can assign cameras that you want to make recording for by the disk. Specify the minimum free space of the disk in General Settings.


Hardware
Recording
Event
Backup
Network
System
NET-i ware
Schedule
Event
Camera
HDD Information
Allocation
Release
Refresh
Camera Name
▸▸
◂◂
Auto Assignement
Common Settings
Apply

| HDD | Status | Total space | Used space | Free space | Write |
|---|---|---|---|---|---|
| Local Disk (C:) | System | 78.1GB | 34.7 GB | 43.4 GB | 0.3 Mbps |
| Local Disk (D:) | Released | 6.8GB | 4.6 GB | 2.1 GB | 0.3 Mbps |
| Local Disk (J:) | Released | 213.1GB | 0.1 GB | 213.0 GB | 0.3 Mbps |

192.168.0.205:4520-1CH-01

Minimum Free Space 2.0 GB

☑ Overwrite when disk is full.

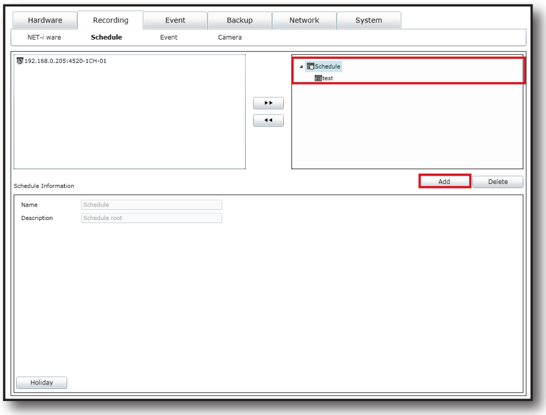
## ❖ Schedule

You can access NET-i ware to make scheduled recording.

Then, NET-i ware will start or stop recording according to the set schedule.

You can create one schedule and apply it to multiple cameras.

You can also create multiple schedules.

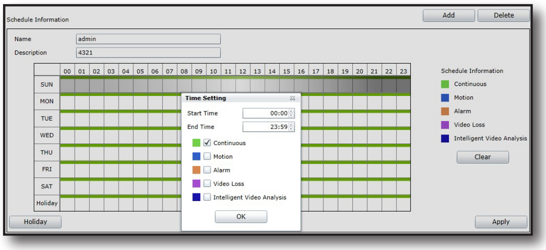

Hardware
Recording
Event
Backup
Network
System
NET-i ware
Schedule
Event
Camera
192.168.0.205:4520-1CH-01
▸▸
◂◂
Schedule
test
Schedule Information
Add
Delete
Holiday

Name: Schedule

Description: Schedule root

### To make a schedule

From the web viewer, click the time table or specify an area to create a schedule to your preference.


Schedule Information
Add
Delete
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23
SUN
MON
TUE
WED
THU
FRI
SAT
Holiday
Time Setting
Schedule Information
🟩 Continuous
🟦 Motion
🟧 Alarm
🟪 Video Loss
🟦 Intelligent Video Analysis
Clear
OK
Holiday
Apply

Name: admin

Description: 4321

Start Time: 00:00

End Time: 23:59

🟩 ☑ Continuous

🟦 ☐ Motion

🟧 ☐ Alarm

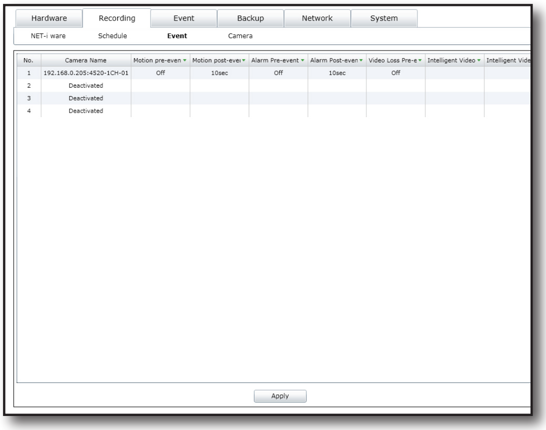
🟪 ☐ Video Loss

🟦 ☐ Intelligent Video Analysis

## ❖ Event

To help the user better understand the event situation, you can specify the pre- and post-recording times from the event occurrence time.

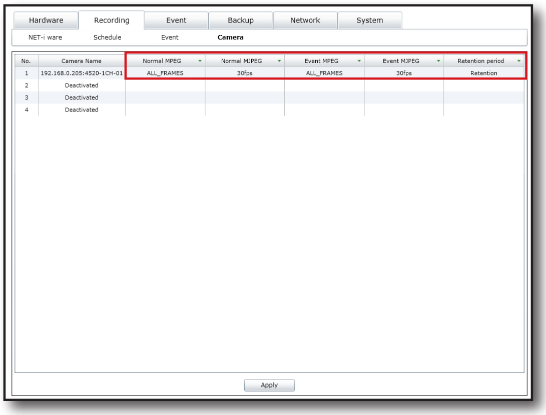
Based on the event occurrence time, recording will be made for as much as specified for the pre- and post-recoding times.


Hardware
Recording
Event
Backup
Network
System
NET-i ware
Schedule
Event
Camera
Apply

| No. | Camera Name | Motion pre-even | Motion post-evei | Alarm Pre-event | Alarm Post-even | Video Loss Pre-e | Intelligent Video | Intelligent Vide |
|---|---|---|---|---|---|---|---|---|
| 1 | 192.168.0.205:4520-1CH-01 | Off | 10sec | Off | 10sec | Off | | |
| 2 | Deactivated | | | | | | | |
| 3 | Deactivated | | | | | | | |
| 4 | Deactivated | | | | | | | |

### ❖ Camera

You can specify the frame rate (fps) for each active camera or recording type (normal/event).


Hardware
Recording
Event
Backup
Network
System
NET-i ware
Schedule
Event
Camera
Apply

| No. | Camera Name | Normal MPEG | Normal MJPEG | Event MPEG | Event MJPEG | Retention period |
|---|---|---|---|---|---|---|
| 1 | 192.168.0.205:4520-1CH-01 | ALL_FRAMES | 30fps | ALL_FRAMES | 30fps | Retention |
| 2 | Deactivated | | | | | |
| 3 | Deactivated | | | | | |
| 4 | Deactivated | | | | | |

## Event

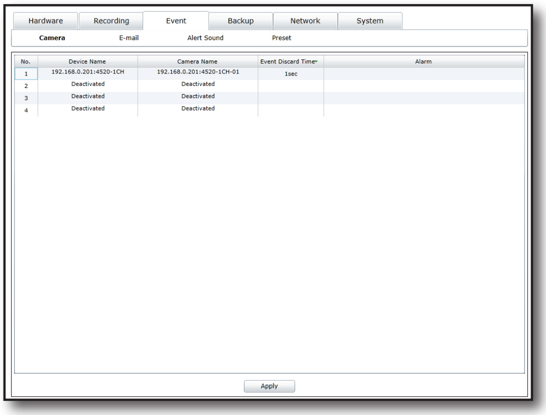
For more information, refer to “**To set an Event**”. (Page 27)

### ❖ Camera

You can specify the discard time or set the alarm-in to synchronize with for each active camera.

The discard time is a time to discard (ignore) any duplicate event that occurs in the same time line.

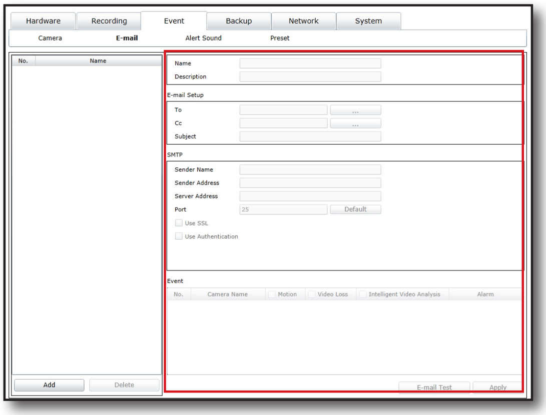
You can also set the alarm-in for each camera, which will synchronize with the alarm-in occurring from the device.


Hardware
Recording
Event
Backup
Network
System
Camera
E-mail
Alert Sound
Preset
Apply

| No. | Device Name | Camera Name | Event Discard Time | Alarm |
|---|---|---|---|---|
| 1 | 192.168.0.201:4520-1CH | 192.168.0.201:4520-1CH-01 | 1sec | |
| 2 | Deactivated | Deactivated | | |
| 3 | Deactivated | Deactivated | | |
| 4 | Deactivated | Deactivated | | |

### ❖ E-mail

You can set to send an email notice when an event occurs.

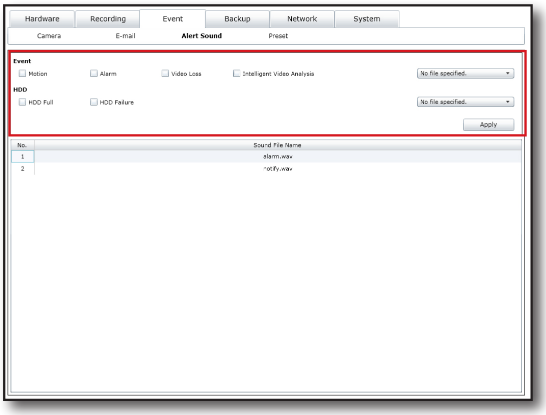

Hardware
Recording
Event
Backup
Network
System
Camera
E-mail
Alert Sound
Preset
No.
Name
Add
Delete
Name
Description
E-mail Setup
To
Cc
Subject
SMTP
Sender Name
Sender Address
Server Address
Default
Use SSL
Use Authentication
Event
No.
Camera Name
Motion
Video Loss
Intelligent Video Analysis
Alarm
E-mail Test
Apply

Port 25

### ❖ Alert Sound

A beep will sound the moment an event occurs.

- In the web viewer, you cannot save or delete a .wav file that will be used as a beep.
- In the web viewer, you cannot play the .wav file (that will be used as a beep) in advance.


Hardware
Recording
Event
Backup
Network
System
Camera
E-mail
Alert Sound
Preset
Event
☐ Motion
☐ Alarm
☐ Video Loss
☐ Intelligent Video Analysis
HDD
☐ HDD Full
☐ HDD Failure
Apply

No file specified.

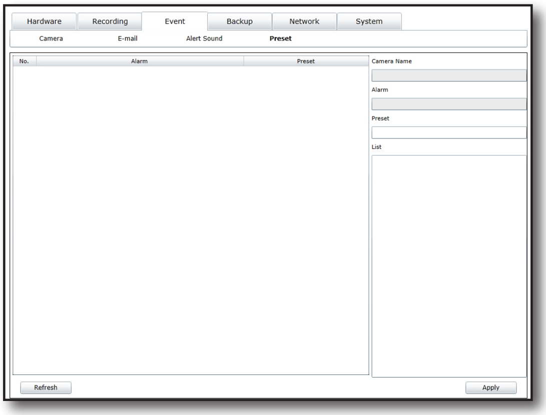
No file specified.

| No. | Sound File Name |
|---|---|
| 1 | alarm.wav |
| 2 | notify.wav |

### ❖ Preset

As soon as an alarm occurs, you can set to move to a camera preset.

- Press Refresh to update the current preset list.

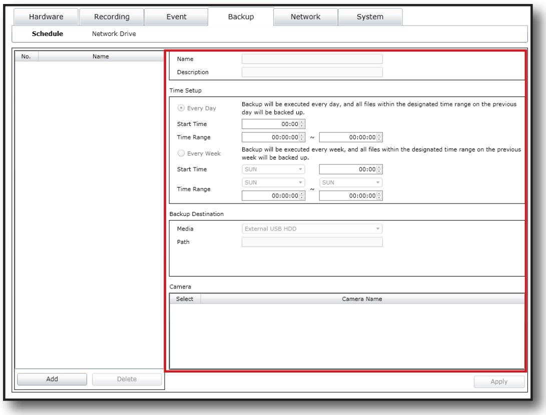

Hardware
Recording
Event
Backup
Network
System
Camera
E-mail
Alert Sound
Preset
No.
Alarm
Preset
Camera Name
Alarm
Preset
List
Refresh
Apply

## Backup

For more information, refer to “**Backup Setting**”. (Page 30)

### ❖ Schedule

You can backup recording data according to the specified schedule.


Hardware
Recording
Event
Backup
Network
System
Schedule
Network Drive
No.
Name
Name
Description
Time Setup
● Every Day
Start Time
Time Range
○ Every Week
Start Time
Time Range
Backup Destination
Media
Path
Camera
Select
Camera Name
Add
Delete
Apply

Backup will be executed every day, and all files within the designated time range on the previous day will be backed up.

Start Time: 00:00

Time Range: 00:00:00 ~ 00:00:00

Backup will be executed every week, and all files within the designated time range on the previous week will be backed up.

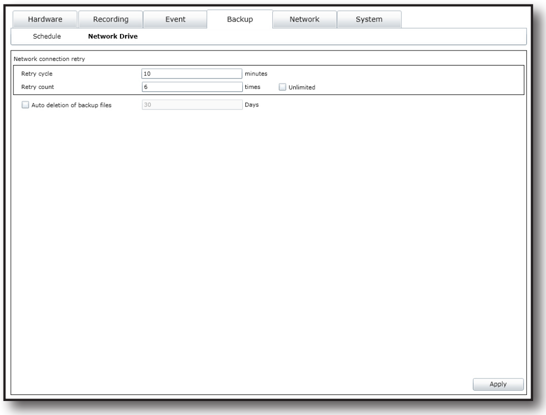
Start Time: SUN 00:00

Time Range: SUN 00:00:00 ~ SUN 00:00:00

Media: External USB HDD

### ❖ Network Drive

If you use a network drive for scheduled backup, you can set the retry time (against a network failure) or specify the use of auto deletion of a backup file.


Hardware
Recording
Event
Backup
Network
System
Schedule
Network Drive
Apply

Network connection retry
Retry cycle 10 minutes
Retry count 6 times ☐ Unlimited
☐ Auto deletion of backup files 30 Days

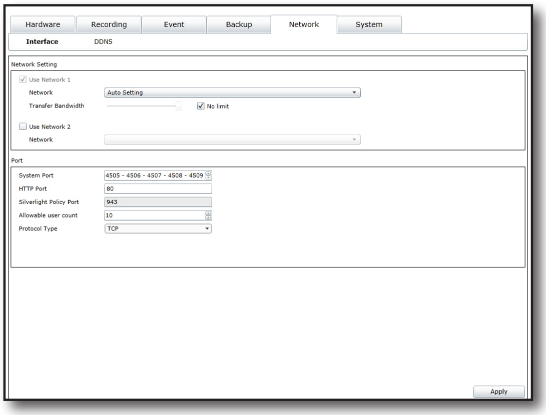
## Network

For more information, refer to “**Network Setting**”. (Page 31)

### ❖ Interface

You can check and make necessary settings of the interface information.

- The web viewer does not support UDP (Unicast/Multicast) settings.

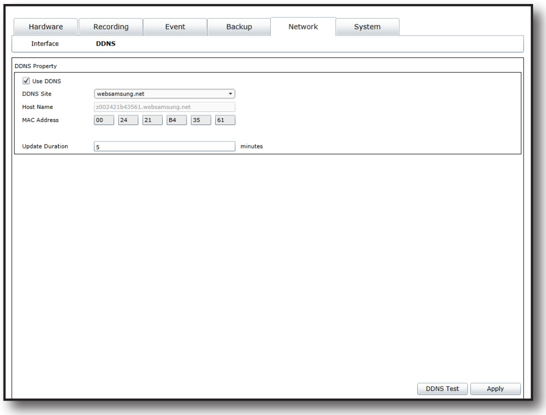

Hardware
Recording
Event
Backup
Network
System
Interface
DDNS
Apply

Network Setting
☑ Use Network 1
Network Auto Setting
Transfer Bandwidth ☑ No limit
☐ Use Network 2
Network

Port
System Port 4505 - 4506 - 4507 - 4508 - 4509
HTTP Port 80
Silverlight Policy Port 943
Allowable user count 10
Protocol Type TCP

### ❖ DDNS

Register NET-i ware with DDNS.


Hardware
Recording
Event
Backup
Network
System
Interface
DDNS
DDNS Test
Apply

DDNS Property
☑ Use DDNS
DDNS Site websamsung.net
Host Name z002421b43561.websamsung.net
MAC Address 00 24 21 B4 35 61
Update Duration 5 minutes

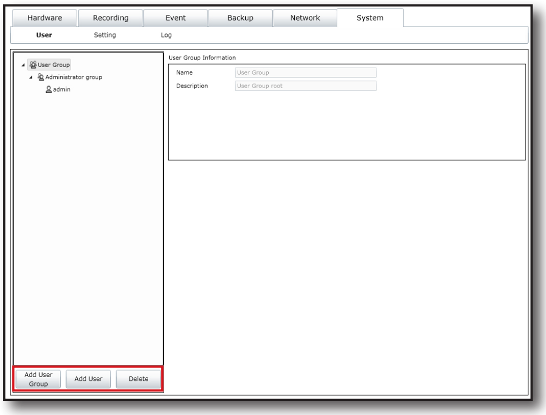
## System

For more information, refer to “**System Setting**”. (Page 33)

### ❖ User

You can add a user or user group and set the access permissions as necessary.

Accounts available include: default user group with the admin permissions and default user (admin).


Hardware
Recording
Event
Backup
Network
System
User
Setting
Log
User Group
Administrator group
admin
Add User Group
Add User
Delete

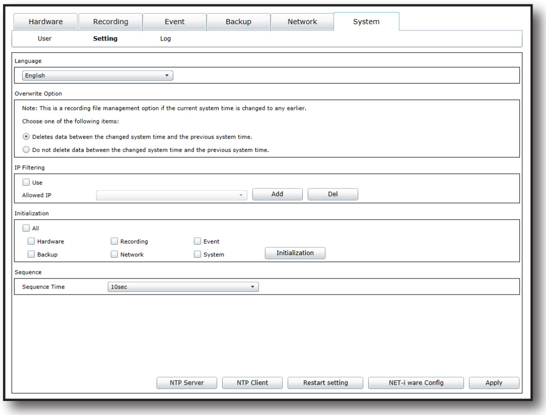
User Group Information

Name: User Group

Description: User Group root

### ❖ Setting

You can configure the NET-i ware settings to your preference.


Hardware
Recording
Event
Backup
Network
System
User
Setting
Log
Add
Del
Initialization
NTP Server
NTP Client
Restart setting
NET-i ware Config
Apply

Language: English

Overwrite Option

Note: This is a recording file management option if the current system time is changed to any earlier.

Choose one of the following items:

● Deletes data between the changed system time and the previous system time.

○ Do not delete data between the changed system time and the previous system time.

IP Filtering

☐ Use

Allowed IP

Initialization

☐ All

☐ Hardware ☐ Recording ☐ Event

☐ Backup ☐ Network ☐ System

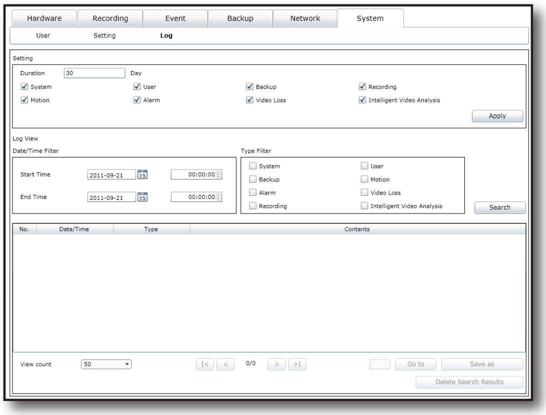
Sequence

Sequence Time: 10sec

- If you change the current language in the web viewer, the new language will be applied only to the Setup menu of the web viewer.
  (The OSD language for NET-i ware Tool, Service Manager, and Update Manager will comply with that of NET-i ware Tool.)
- The web viewer does not allow you to set the time and date display information.
- The web viewer does not support any update process.
- The web viewer does not allow you to create/edit the Windows logon account.
- In the web viewer, you can set the sequence time to between 10 seconds and 60 seconds.

### ❖ Log

You can configure the log saving settings and search for an existing log.


Hardware
Recording
Event
Backup
Network
System
User
Setting
Log
Apply
Search
No.
Date/Time
Type
Contents
|<
<
>
>|
Go to
Save as
Delete Search Results

Setting

Duration 30 Day

☑ System ☑ User ☑ Backup ☑ Recording

☑ Motion ☑ Alarm ☑ Video Loss ☑ Intelligent Video Analysis

Log View

Date/Time Filter

Start Time 2011-09-21 00:00:00

End Time 2011-09-21 00:00:00

Type Filter

☐ System ☐ User

☐ Backup ☐ Motion

☐ Alarm ☐ Video Loss

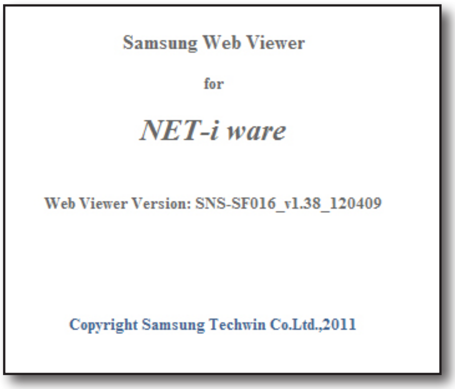
☐ Recording ☐ Intelligent Video Analysis

View count 50

0/0

## ABOUT

Display the program version and creation date of the web viewer.



Samsung Web Viewer

for

*NET-i ware*

Web Viewer Version: SNS-SF016_v1.38_120409

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## SALES NETWORK

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